LIBRARY JOURNAL

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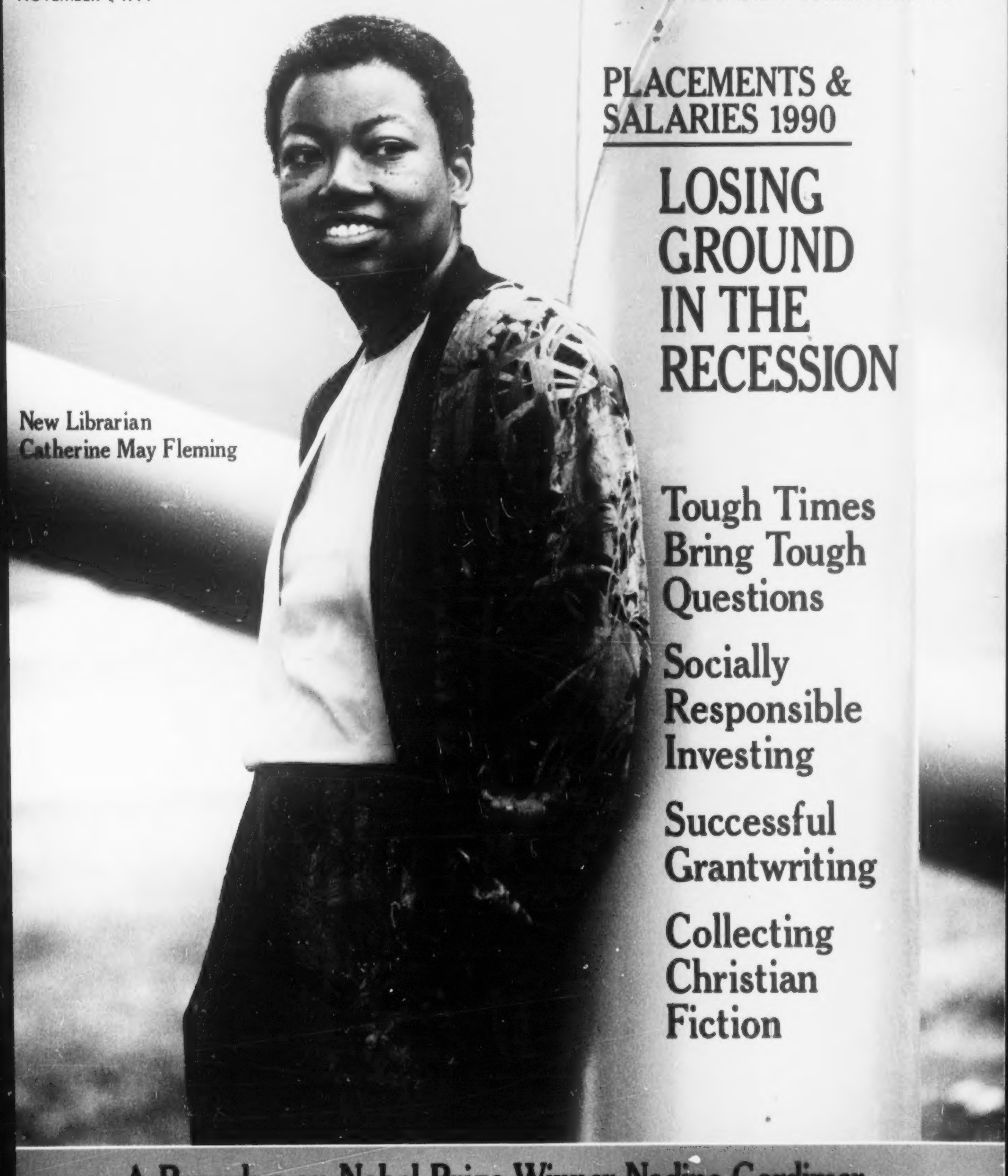

New Librarian
Catherine May Fleming

PLACEMENTS & SALARIES 1990

LOSING GROUND IN THE RECESSION

Tough Times Bring Tough Questions

Socially Responsible Investing

Successful Grantwriting

Collecting Christian Fiction

A Roundup on Nobel Prize Winner Nadine Gordimer

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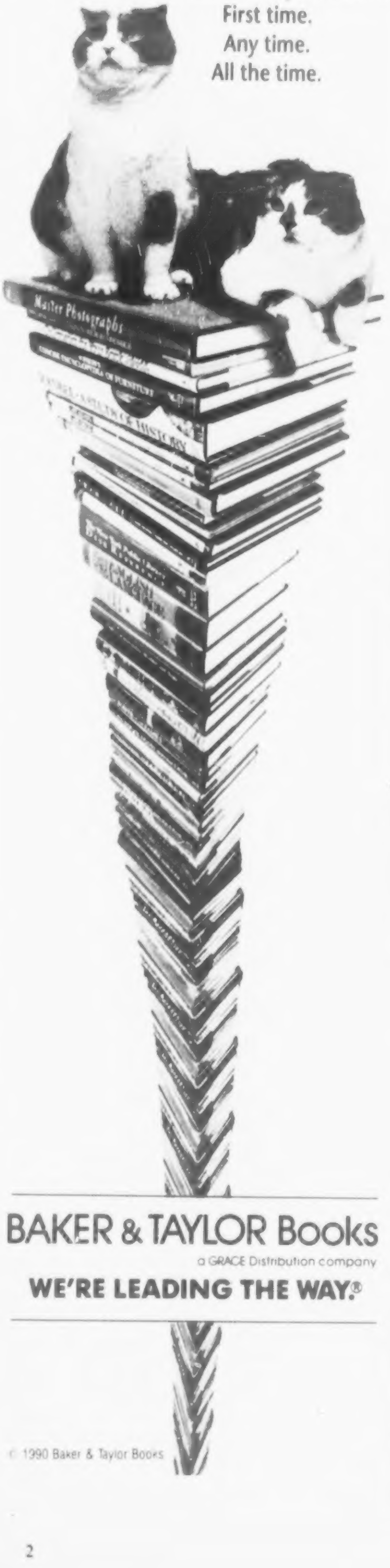

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LIBRARY

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Catherine May Fleming left an established career in law to become manager of the North Flint Branch Library. How did her fellow 1990 graduates fare? See Fay Zipkowitz's "Placements & Salaries 1990" on page 44.

PHOTOGRAPH BY JOHN GILROY

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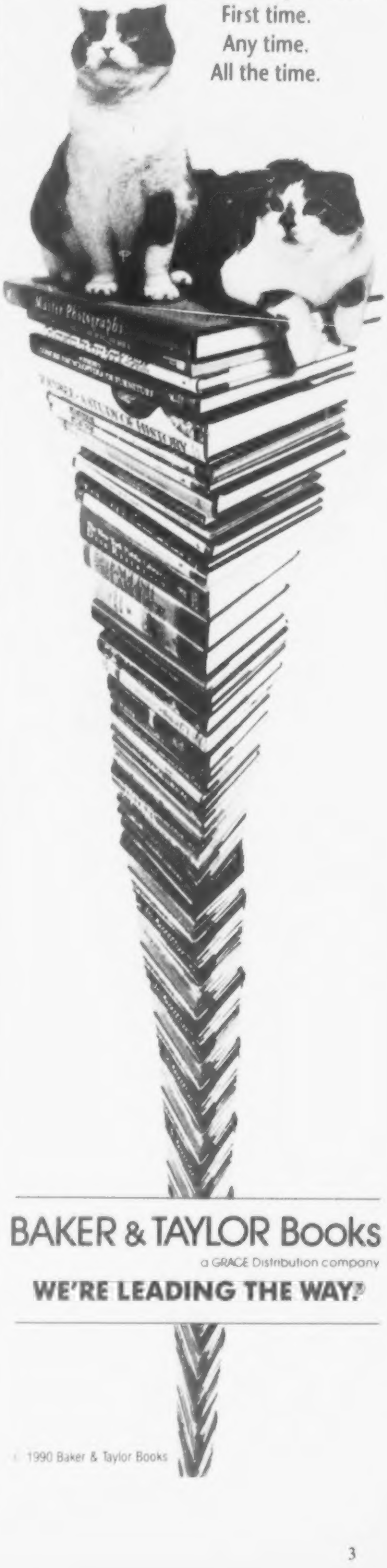

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LIBRARY MARKET OUTLOOK

BY DEBORAH SELSKY

Salaries for Librarians Increase More Than Comparable Jobs

Salary increases for librarians were substantially larger than those for comparable job categories in 1991, according to data from the Annual Salary Survey of the American Library Association (ALA) and the Bureau of Labor Statistics (BLS) Employment Cost Index. Beginning in January 1991, the average salary paid to a librarian was 7.6 percent higher than in 1990. Wages and salaries of white-collar professional workers across all industries increased only 4.9 percent from March 1990 to March 1991, according to data from the BLS Index.

Average Salaries for 1991 by Library Type and Size

	Medium-Size Public	Large Public	Two-Year College	Four-Year College	University
Director	$41,401	$61,228	$46,701	$40,679	$58,138
Assistant Director	35,219	49,123	40,338	32,942	49,590
Dept./Branch Head	31,306	36,845	41,893	31,904	39,483
Collection Development	29,726	33,024	45,341	33,507	38,493
Reference/Information	28,456	30,817	41,583	28,189	32,621
Cataloger/Classifier	27,889	30,816	39,852	27,552	32,564
Children/Young Adult	27,583	30,770	n/a	n/a	n/a

Source: American Library Association Survey of Librarian Salaries, 1991

Faster than prices

The ALA survey examines average salaries paid within public and academic libraries among all full-time professional job categories. Librarian salary increases are growing to the extent that they more than compensate for general price inflation. Over the past year, the cost of living (as measured by the Consumer Price Index) grew 3.8 percent.

The recent salary gains for librarians look impressive, but they may only be compensating for ground lost in 1990 when library salary growth was well below average. The average library salary gain from 1989 to 1990 was only 4.3 percent.

Collection builders catch up

Job categories that saw the greatest salary growth in 1991 were those that saw sluggish growth the year before. In particular, the average salary for collection development librarians increased 9.2 percent in 1991 following a 1.5 percent rise in 1990. Similarly, salaries for library directors grew by 8.9 percent in 1991, compared to two percent in 1990.

The highest-paid librarians, on average, work in the North Atlantic or West and Southwest regions of the country. Directors, assistant directors, and department heads in the North Atlantic states are paid higher salaries than their counterparts nationwide. Reference librarians, catalogers, collection development librarians, and children's librarians claimed higher salaries in the West and Southwest than in other regions. Libraries in the Southeast still pay the lowest average salaries for all job categories.

Directors, beginners gain big

Directors, who get the highest salaries in all types of libraries, averaged only $48,439 in 1991. Directors' salaries ranged from an average of $40,679 in four-year colleges to an average of $61,228 in large public libraries. In 1991, directors' salaries increased an average 8.9 percent, with the greatest gains seen in the Southeast (11.9 percent) and the lowest in the West and Southwest (6.8 percent).

Beginning salaries paid to full-time staff members with a master's degree in library science but no professional experience stood at $24,817 in 1991 for all libraries—up 8.2 percent from the year before.

The highest salaries for beginning librarians ($30,890) were in two-year colleges while the lowest ($22,927) were in medium-sized public libraries.

Deborah Selsky is an economist with Cahners Economics, which provides industry analyses and forecasting services for the markets its magazines serve

After four decades, have we made great strides in professional salaries? The range for

Placements & Losing Ground in the Recession

By Fay Zipkowitz

THIS FORTIETH annual report of placements and salaries of graduates of American Library Association–accredited library school programs includes information from 42 of the 52 eligible institutions. The study was undertaken in May 1991, with survey forms reaching the schools in June, causing some institutions to find participation difficult or impossible. In some cases, only partial information could be supplied in the

Fay Zipkowitz is Associate Director, Graduate School of Library and Information Studies, University of Rhode Island, Kingston

Table 1: Status of 1990 U.S. Graduates, Spring 1991

	No. of Graduates			Not in Library Positions			Empl. Not Known			Permanent Prof. Placements			Temp. Prof. Placements			Nonprof. Library Placements			Total in Library Positions		
	Women	Men	Total	Women	Men	Total	Women	Men	Total	Women	Men	Total	Women	Men	Total	Women	Men	Total	Women	Men	Total
Northeast	784	216	1000	24	4	29	109	36	206	366	83	464	27	3	31	14	4	18	407	90	513
Southeast	561	118	679	20	12	32	133	32	242	262	52	314	12	2	16	6	0	6	280	54	336
Midwest	826	253	1079	10	3	13	163	58	221	443	117	561	40	8	48	28	11	39	511	136	648
Southwest	359	64	423	7	4	11	36	10	46	150	33	183	25	12	37	8	0	8	183	45	228
West	264	77	341	7	1	8	32	18	55	141	41	182	14	4	18	7	2	9	162	47	209
All Schools	**2794**	**728**	**3522**	**68**	**24**	**93**	**473**	**154**	**770**	**1362**	**326**	**1704**	**118**	**29**	**150**	**63**	**17**	**80**	**1543**	**372**	**1934**

Table 2A: Placements and Full-Time Salaries of 1990 U.S. Graduates Summary by Region*

	Placements	Salaries			Low Salary			High Salary			Average Salary			Median Salary		
		Women	Men	Total	Women	Men	Total	Women	Men	Total	Women	Men	Total	Women	Men	Total
Northeast	529	318	65	398	12000	12000	12000	58650	68000	68000	26981	27326	27147	25500	25000	25590
Southeast	363	233	49	282	10500	16000	10500	38000	42666	42666	23512	25000	23776	23000	24000	23121
Midwest	645	358	108	467	12000	11440	11440	51125	56000	56000	24077	24674	24215	23816	23000	23288
Southwest	213	131	29	160	12100	18000	12100	37500	57047	57047	24015	25995	24374	23025	23700	23500
West	233	120	35	155	18000	20300	18000	40000	49230	49230	27853	26797	27615	27000	26000	27090
All Schools	**1983**	**1160**	**286**	**1462**	**10500**	**11440**	**10500**	**56850**	**68000**	**68000**	**25204**	**25724**	**25306**	**24000**	**24700**	**24200**

* Includes placements undifferentiated by sex

last year was $10,500 to $68,000

Salaries 1990

Table 2B: Placements and Full-Time Salaries of 1990 U.S. Graduates*

Schools	Placements	Salaries			Low Salary			High Salary			Average Salary			Median Salary		
		Women	Men	Total	Women	Men	Total	Women	Men	Total	Women	Men	Total	Women	Men	Total
Alabama	36	21	5	26	14300	20088	14300	28900	31500	31500	22015	23666	22374	21130	21500	21500
Albany	63	44	8	52	19000	20000	19000	45000	34500	45000	28858	27150	28600	28750	26600	28750
Buffalo	59	44	1	45	19500	21425	19500	42092	21425	42092	25583	21425	25490	24250	21425	24000
California (Berk.)	53	35	13	48	21035	20300	20300	40000	37000	40000	28871	26385	28119	28000	25000	27595
California (L.A.)	81	34	14	49	22500	17000	17000	40000	31692	40000	28988	26187	28135	28733	27240	28000
Catholic	29	22	4	26	13300	21600	13300	35000	68000	68000	26069	42667	27984	25500	30000	25750
Columbia	37	11	8	19	23691	20000	20000	38000	40000	40000	27891	28563	28174	25500	28000	26500
Drexel	57	44	10	54	11000	12000	11000	40000	37400	40000	24497	26640	24894	24000	26500	25267
Florida State	52	40	8	48	18000	18000	18000	40000	33000	40000	24770	25492	24890	23991	24500	24000
Hawaii	36	28	4	32	12000	24000	12000	49230	29000	49230	27480	26000	27301	26000	25500	26000
Illinois	53	31	17	48	17250	12500	12500	30000	30000	30000	22853	23075	22932	22750	23000	23000
Indiana	88	65	13	78	11400	12000	11400	44000	56000	56000	23388	24800	23623	22800	22000	22650
Iowa	40	22	10	32	19000	19000	19000	46000	28200	46000	24977	23512	24519	23500	23750	23750
Kent State	89	43	11	54	15000	19500	15000	42500	29000	42500	22816	23014	22856	23300	23500	23500
Louisiana State	46	26	14	40	15000	18500	15000	36000	50000	50000	22148	25367	23275	21300	22000	21800
Michigan	75	50	16	66	12400	13500	12400	51125	36000	51125	26959	26169	26768	25000	25896	29150
Missouri	64	37	7	44	14000	16800	14000	35000	33500	35000	20832	24123	21355	21023	23000	21500
North Carolina	48	24	10	34	20111	22000	20111	35140	29760	35140	25837	25651	25782	25250	26500	26000
N.C. Central	15	11	2	13	12000	32000	12000	30000	32500	32500	23463	32125	24815	24000	32125	25500
N.C. Greensboro	29	24	2	26	19000	22000	29000	29484	25392	29484	23315	23696	23347	24450	23696	22578
North Texas	143	57	11	68	12100	20500	12100	40000	30600	40000	22995	24047	23166	22000	24000	22250
Northern Illinois	40	29	4	33	14634	21000	14634	33000	43000	43000	22450	27500	23045	23000	23000	23000
Pratt	14			14			25000			47500			30289			29125
Rhode Island	33	23	5	28	17000	22000	17000	45000	26000	45000	26375	23400	25844	24562	23000	24000
Rosary	95	49	12	61	17000	18200	17000	40000	28000	40000	23707	23732	23712	22661	24144	23000
Rutgers	113	79	16	95	20000	23400	20000	56850	50000	56580	28657	27788	28510	27000	25000	27000
St. John's	14	7	4	11	19999	22000	19999	48000	30000	48000	30500	23750	28045	28500	23500	27250
Simmons	120	78	17	95	15000	18700	15000	41800	35000	41800	25338	26124	25479	24150	25700	25000
South Carolina	69	58	7	65	17000	20000	17000	38000	42666	42666	24894	27238	25151	24250	24000	24100
South Florida	29	24	3	27	18000	20000	18000	37000	28900	37000	23669	23633	23665	23579	22000	23547
So. Mississippi	24	17	3	20	10500	16000	10500	36000	26000	36000	19359	21667	19705	19800	23000	19900
Tennessee	21	17	4	21	18500	23000	18500	35000	27300	35000	23720	25200	24002	23076	25250	23076
Texas (Austin)	64	44	17	61	18720	20000	18720	37107	57047	57047	24860	27920	25713	24863	25717	25000
Texas Woman's	64	46	4	50	16000	18000	16000	37500	32000	37500	24004	24750	24064	23013	24500	23013
Washington	65	41	8	49	18000	21200	18000	33500	40000	40000	25660	27748	26001	25000	26649	25500
Wayne State	82	44	13	57	12000	21000	12000	38000	42000	42000	23308	25620	23835	22759	25000	23818
Wisconsin (Mad.)	58	24	12	36	19560	18720	18720	32000	38000	38000	24031	24524	24327	23998	24000	24000
Wisconsin (Milw.)	28	15	5	20	16000	18500	16000	24000	32000	32000	20225	23449	21039	20000	23246	22273

* Includes placements undifferentiated by sex

short time frame, and I appreciate the efforts of the respondents. Four Northeastern, two Southeastern, one Midwestern, one Southwestern, and two Western schools did not contribute data this year.

This report follows closely last year's, with grateful acknowledgement to Carol Learmont and Stephen Van Houten. Due to time constraints, their organization and style have been largely imitated in this report, but Tables 9, 10, and 12 have been omitted. There continues to be no Table 5.

In 1990, the average beginning salary was $25,306 based on 1,462 known, full-time, permanent, professional salaries, a modest increase over last year's figure of $24,581.

In 1990, the average (mean) beginning salary for women was $25,204, a 2.7 percent increase over 1989; for men, $25,724, a 4.3 percent increase. The median salary was $24,200 for all graduates; for women, $24,000; for men, $24,700.

There were 150 temporary professional placements reported in 1990, compared with 198 in 1989 and 201 in 1988. No salaries or placement

Table 3: Placements by Type of Library*

Schools	Public			Elementary & Secondary			College & Universities			Special			Other			Total		
	Women	Men	Total	Women	Men	Total	Women	Men	Total	Women	Men	Total	Women	Men	Total	Women	Men	Total
Alabama	9	0	9	11	2	13	10	3	13	1	0	1	0	0	0	31	5	36
Albany	10	2	12	18	0	19	5	2	8	10	5	15	6	0	6	49	9	60
Buffalo	15	0	15	16	1	17	17	0	17	7	0	7	0	1	1	55	2	57
California (Berk.)	14	4	18	0	0	0	10	9	19	11	1	12	3	1	4	38	15	53
California (L.A.)	16	8	24	0	1	1	21	10	31	14	5	19	4	0	4	55	24	79
Catholic	7	0	7	2	0	2	4	0	4	7	3	10	3	0	3	23	3	26
Columbia	4	5	9	2	0	2	6	7	13	5	3	8	3	0	3	20	15	35
Drexel	11	2	13	8	0	8	6	3	9	12	3	15	9	3	12	46	11	57
Florida State	14	4	18	9	1	10	8	2	10	5	0	5	6	1	7	42	8	50
Hawaii	10	2	12	13	1	14	4	2	6	4	0	4	0	0	0	31	5	36
Illinois	31	17	48	16	4	20	3	2	5	10	10	20	5	2	7	65	35	100
Indiana	27	8	35	11	0	11	22	5	27	11	2	13	0	0	0	71	15	86
Iowa	8	4	12	6	0	6	8	7	15	2	1	3	3	1	4	27	13	40
Kent State	31	12	43	11	0	11	17	6	23	9	0	9	2	1	3	70	19	89
Louisiana State	9	4	13	5	1	6	5	9	14	8	2	10	1	0	1	28	16	44
Michigan	18	6	24	12	0	12	18	7	25	11	2	13	0	1	1	59	16	75
Missouri	11	2	13	10	0	10	9	4	13	9	1	10	0	0	0	39	7	46
North Carolina	9	2	11	7	0	7	8	9	17	2	0	2	7	4	11	33	15	48
North Carolina Central	2	0	2	10	1	11	1	1	2	0	0	0	0	0	0	13	2	15
N.C. Greensboro	7	2	9	8	0	8	3	1	4	6	0	6	1	0	1	25	3	28
North Texas State	24	1	25	17	1	18	21	11	32	6	2	8	2	0	2	70	15	85
Northern Illinois	18	3	22	7	0	7	5	0	5	1	1	2	2	0	2	33	4	38
Pratt			2			1			3			7			1			14
Rhode Island	9	2	11	11	1	12	4	1	5	3	2	5	0	0	0	27	6	33
Rosary	21	2	23	18	1	19	14	5	19	13	5	18	0	0	0	66	13	79
Rutgers	38	5	44	16	3	19	12	8	20	24	3	27	3	0	3	93	19	113
St. John's	4	0	4	1	0	1	1	2	3	2	2	4	0	0	0	8	4	12
Simmons	45	3	48	10	0	10	21	9	30	24	8	32	0	0	0	100	20	120
South Carolina	11	3	14	39	2	41	5	2	7	6	0	6	1	0	1	62	7	69
South Florida	10	0	10	9	0	9	6	1	7	1	1	2	0	1	1	26	3	29
Southern Mississippi	7	2	9	7	0	7	1	1	2	2	0	2	2	0	2	19	3	22
Tennessee	4	0	4	3	1	4	5	0	5	0	0	0	5	3	8	17	4	21
Texas (Austin)	8	2	10	7	1	8	18	5	23	9	7	16	4	3	7	46	18	64
Texas Woman's	14	1	15	22	1	23	9	3	12	11	0	11	1	1	2	57	6	63
Washington	21	1	22	1	0	1	16	6	22	16	4	20	0	0	0	54	11	65
Wayne State	28	7	35	16	1	17	13	4	17	8	5	13	0	0	0	65	17	82
Wisconsin (Madison)	7	3	10	7	0	7	20	9	29	5	4	9	2	0	2	41	16	57
Wisconsin (Milwaukee)	1	5	6	4	7	11	0	1	1	0	2	2	0	1	1	5	16	21
Total	**533**	**124**	**661**	**370**	**31**	**403**	**356**	**157**	**517**	**275**	**84**	**366**	**75**	**24**	**100**	**1609**	**420**	**2047**

* Includes placements undifferentiated by sex

Table 4: Placements by Type of Library 1980–1990

Year	Public	School	College & Universities	Other Lib. Agencies*	Total
1980	659 (27.1)	473 (19.5)	610 (25.1)	687 (28.3)	2429
1981	642 (27.3)	451 (19.2)	556 (23.6)	704 (29.9)	2353
1982	588 (28.5)	358 (17.4)	505 (24.5)	612 (29.7)	2063
1983	501 (28.0)	308 (17.3)	424 (23.8)	552 (30.9)	1785
1984	548 (27.9)	284 (14.4)	551 (28.0)	583 (29.7)	1966
1985	565 (29.4)	300 (15.6)	522 (27.2)	533 (27.8)	1920
1986	576 (30.3)	288 (15.2)	488 (25.7)	548 (28.8)	1900
1987	610 (30.5)	355 (17.7)	434 (21.7)	602 (30.1)	2001
1988	624 (31.4)	386 (19.4)	464 (23.4)	511 (25.7)	1985
1989	587 (31.9)	330 (17.9)	460 (25.0)	462 (25.1)	1839
1990	651 (32.0)	403 (19.8)	517 (25.4)	466 (22.9)	2037

* From 1951 through 1966 these tabulations were for "special and other placements" in all kinds of libraries. From 1967 to 1979 these figures include only placements in library agencies that do not clearly belong to one of the other three groups. In the 1980 through 1990 report these figures include the sum of responses to placements in special libraries and in other information specialties. Figures for individual years are reported in preceding articles in this series

Table 6: Special Placements*

	Women	Men	Total
Government Jurisdictions (U.S.)			
State libraries	13	5	18
Other government agencies (except USVA hospitals)	9	1	10
National libraries	2	0	2
Armed Services libraries (domestic)	2	0	2
Overseas agencies (incl. Armed Services)	3	0	3
Library Science			
Advanced study	2	1	3
Other			
Children's services (school libraries)	20	0	20
Children's services (public libraries)	13	2	15
Youth services (school)	14	4	18
Youth services (public libraries)	50	0	50
Law	62	17	79
Business, (finance, industrial, corporate, banking, insurance, oil, etc.)	24	14	41
Medicine (incl. nursing schools)	27	6	33
Science and technology	18	12	30
Systems analysis, automation	14	7	21
Audiovisual and media centers	13	1	14
Hospitals (incl. USVA hospitals)	7	0	7
Rare books, manuscripts, archives	20	5	26
Research and development	6	2	8
Government documents	9	6	15
Information services (nonlibrary)	7	1	8
Historical agencies and archives	4	4	8
Religion (seminaries, theological schools)	4	5	9
Art and museum	12	1	13
Databases (publishing, servicing)	5	1	6
Outreach activities and services	7	1	8
Social sciences	7	1	8
Indexing	5	1	6
Records management	5	2	7
Networks and consortia	2	0	2
Freelance	0	1	1
Pharmaceutical	8	1	9
Professional associations	5	0	5
Maps	0	1	1
Bookstore	3	1	4
Genealogical	1	0	1
Services to the handicapped	2	0	2
Theater, motion pictures, dance, music	1	1	2
Correctional institutions	0	1	1
Spanish-speaking centers	1	0	1
Total Special Placements	**407**	**106**	**517**

* Includes special placements in all types of libraries

information for Canadian schools appears this year. The category "Other Placements" includes a variety of nontraditional positions, but because of a change in the form of the questionnaire, some "specialties" actually overlap the more traditional categories, e.g., school libraries. Some reports include split or combined positions, such as cataloging/reference, and these are not reflected in the "Other Placements" listing. For future reports, this category will be redesigned to reflect the changes occurring in library position titles.

Placement statistics

First professional degrees were awarded to 3,522 graduates of the 42 schools reporting in 1990. In 1989 the 43 reporting schools awarded 3,356 first professional degrees; in 1988, the 51 reporting schools awarded 3,691 first professional degrees. In 1990, the average number of graduates of schools reporting was 84; in 1989, it was 78; in 1988, it was 72.

Table 1 shows permanent and temporary professional placements, as well as nonprofessional library placements, and the totals for the three. These are library or information-related positions. Table 1 also shows the number of graduates who were reported to be not in library positions or whose employment status was unknown in the summer of 1991. Of these, less than one percent were known not to be in library positions compared with nine percent in 1990 and eight percent in 1989. In the summer of 1991, the employment status of 21 percent of the graduates was unknown, compared with 26 percent in 1990 and 27 percent in 1989.

Of the 1990 graduates, 55 percent were known to be employed either in professional or nonprofessional positions in libraries or information-related work, as were 65 percent of the 1989 graduates and 64 percent of the 1988 graduates. Of the 1990 graduates, 48 percent were known to be employed in permanent professional positions, compared with 56 percent in 1989 and in 1988. (It should be noted that some schools reported only total numbers of graduates and no breakdown of placement status.)

Employment distribution by type of library is shown in Tables 3 and 4. Table 4 is an 11-year listing of placements by type of library and information-related agencies (see note in Table 4).

Because of time restraints, this report does not include information on length of job search or indication of positions already held prior to graduation.

Openings and applicants

A total of 46,836 listings of open library positions were reported received by 36 schools, ranging in numbers of listings from 100 to 3000. The listings were for all positions at all levels, and no doubt many or most were duplicated in several places. In 1989, 35 schools reported 52,564 listings, and in 1988, 38 schools reported 62,230 listings. Eleven schools reported increases in position listings in 1990 over 1989. Increases reported in 1990 ranged from three percent to 50 percent. The median was eight percent. Seven schools reported no significant change from 1989; 12 reported a decrease ranging from two percent to 60 percent.

Most institutions reported no significant difficulty in placing 1990 graduates, and several emphasized the specializations in demand for which they are having difficulty in referring qualified candidates: children's services, both public and school; computer science, information science, and automation; medical and the sciences, both life science and physical science; and cataloging.

The bottom line

The salary statistics presented include only salaries that were reported as full-time annual salaries. Variables such as vacations and other

From Law to Public Librarianship
Catherine May Fleming, Class of 1990

"WHERE ELSE can I get hugs at work? I didn't get 'em as an attorney," said Catherine May Fleming, who left an established career in law to become a librarian. A 1990 graduate of the Library Science Program at Detroit's Wayne State University, Fleming is on our cover to represent last year's graduating class of librarians whose new jobs are statistically described in this annual "Placements & Salaries" report.

"I don't want to be typecast. I'm excited by the potential for diversity in a library career. Every librarian I ever met is deeply committed to the field," Fleming said, when asked why she chose a career in libraries. As a lawyer for the state of Michigan, Fleming represented state agencies in administrative hearings and appeals in court on such matters as civil rights complaints, unemployment claims, and other civil cases seeking remedies or conciliation. She took her heavy case load on the road most days, working out of Detroit.

Her first job as a professional librarian, branch manager of the North Flint Branch of the Flint Public Library, came after a 14-year career in law, most of it with the Department of the Attorney General of the State of Michigan. Although the Flint job offer was her first after library school, Fleming looked around before she signed on.

"At first," she admitted to *LJ*, "I envisaged a job in a bucolic setting. I wanted to be an academic or special librarian." What changed her mind? "Practicalities," Fleming said. "Academic libraries required too many degrees for too little money. I was leaving a law career; the least I was willing to take as a salary was the $35,000 I am paid in Flint."

Fleming, the only professional in the library branch, is trying to reach out to the shrinking, heavily unemployed (more than 17 percent) population of adults and children in North Flint. It is the Flint "neighborhood in most need," according to Flint Public Library Director Gloria Coles, who hired Fleming after a long series of interviews. "We thought the job required some special talents," Coles told *LJ*.

> Explaining her career change, Fleming said, "The library is a living laboratory for me. It is my first opportunity to run my own show"

Support at library school

"No one told me I was going in the wrong direction when I went to Wayne State," Fleming answered when asked how she liked library school. "They took me seriously. No one doubted my sincerity, even though I was coming from law."

How did the experience compare with law school? (Fleming has a JD from Michigan.) "It was definitely graduate level. My whole brain was opened up again. Librarianship doesn't specialize as much as law, and I liked the tremendous breadth of knowledge we studied." Was Wayne State on top of technology? "Absolutely," Fleming asserted, adding, "and I feel completely at home with computers now."

"She was one of the graduates I didn't have to worry about," said Joe Mika, dean of the Wayne State program, adding, "She was an excellent student, I knew she had great potential. She can probably do anything she wants in this field."

A living laboratory

"The library is a living laboratory for me," Fleming said, explaining her career change. "It is my first opportunity to run my own show. We've already had some successes and some failures."

Fleming sees the library's not being recognized as a "primary resource" as a particular challenge in Flint, where she notices signs of potential racial polarization. Fleming believes that outreach programs are the library's key to success. It is part of her view that the library must be seen as a primary resource in the community. "We need to hook into local agencies."

She is proud of the library's work with parents and children, and she mentioned the "Raise a Reader" fringe benefits, which may be part of the total compensation, are excluded. Salaries do not reflect differences in hours worked per week. While this additional information might be useful in providing more precise comparability concerning compensation, the reporting of salaries as presented in this analysis is consistent with statistics collected for this survey since 1951.

Not all of the 42 reporting schools provided salary data, nor could all schools provide all the information requested for all employed graduates. Data for graduates in irregular placements—such as those for graduates from abroad returning to posts in their homelands; appointments in religious orders or elsewhere where remuneration is in the form of some combination of salary plus living; and all salaries for part-time employment—were excluded as best the author can tell.

Another area not explored is that of graduates essentially staying in their positions or in the organizations with which they were affiliated while attending school. This might account for what appear to be very high salaries for first professional degree recipients in some placements. Omitted from this annual report is Table 12, which reflects the effects of experience on salaries, and which includes the category mentioned above.

Average (mean) salaries, medians

The average salary for all 1990 graduates was $25,306, an increase of $725 over the 1989 average of

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program that teaches parents how to help their children be better readers. Every Monday evening the branch brings in a professional storyteller to entertain and teach the parents and children. Fleming is interested in broadening the reading interests of children beyond two or three authors and "straight fiction" to books with more information. "We have strong information files on lupus, AIDS, and sickle cell anemia. We did a program on sickle cell, and we work with a support group in that area. We need more programs on all the health problems here."

Fleming traces her library connection back to Trunetta Perdue who was her librarian at the U.S. Grant School, the elementary school in Royal Oak Township, Michigan, where she grew up. "She turned me on to books and reading and she became a close personal friend, my surrogate mother." A page in the school library, Fleming has worked in law libraries, a medical school library, and another public library.

Time for political action

"Here in Flint the public library is a service of the school system," Fleming said. "The Flint librarians have a commitment to bring the benefits of the library to a larger and larger community. There is a five-year plan that forecasts outreach in many directions and better connections with the schools." She singled out Flint Director Coles, Assistant Director Charles Hansen, Head of Adult Programming Tom Powers, and Children's Coordinator Cynthia Stilley as leaders who have influence here already and as examples of the deep commitment of librarians.

Fleming did admit to some concerns for the future of both the Flint and other libraries. The challenge in Flint is immense, "probably too big to handle," said Fleming. "I'm mentally about 20 now, as the new kid in the system. This is a place where you could burn out fast. Still, libraries have less everywhere. This continuing retrenchment could turn out to be a real bummer!"

"I'm ready to get political," Fleming concluded, firmly. "That's the only way now!" It was a fitting message for the Class of 1990 and all librarians.

Table 7: Salary Data Summarized

	Women	Men	Total
Average (Mean) Salary	$25204	$25724	$25306
Median Salary	24000	24700	24200
Individual Salary Range	10500-56850	11400-68000	10500-68000

Table 8: Average Salary Index* Starting Library Positions, 1985–1990

Year	Library Schools	Avg. Beginning Salary	Dollar Increase in Avg. Salary	Beginning Index	BLS-CPI
1985	58	19753	962	111.6	109.3
1986	54	20874	1121	118.0	110.5
1987	55	22247	1373	125.7	115.4
1988	51	23491	1244	132.8	120.5
1989	43	24581	1090	138.9	124.0
1990	38	25306	725	143.0	130.7

* Bureau of Labor Statistics Consumer Price Index based on 1982-84 = 100. Average beginning salary for 1982-84 figured at $17,693

$24,581. The average salary for women was $25,204 and the average for men was $25,724, a difference of $520 (Table 7). Table 8 shows the Bureau of Labor Statistics base determined by averaging beginning salaries for 1982, 1983, and 1984. The consumer price index (CPI) for 1990 was 130.7, a gain of 5.4 percent over 1989. The beginning salary index was 143.0, an increase of three percent over 1989. We appear to have lost ground here.

In Table 11, the average salary is higher for men in three categories (the differences range from $1,697 to $5,322). The median salary for all graduates in 1990 was $24,200, an increase of $522 over 1989 (only 2.2 percent). The median for women was $24,000; for men, $24,700. Of the 37 schools reporting on both men and women, the median salary was higher for women in 12 schools; for men in 24 schools; and the same in one.

Table 11: Comparison of Salaries by Type of Library*

	Placements	Salaries Known			Low Salary			High Salary			Average Salary			Median Salary		
		Women	Men	Total	Women	Men	Total	Women	Men	Total	Women	Men	Total	Women	Men	Total
Public Libraries																
Northeast	165	113	14	130	13300	20200	13300	30000	30000	30000	23732	25429	23940	24000	25000	24200
Southeast	99	75	16	91	14700	12250	12250	30000	26000	30000	21945	21681	21899	22000	22576	22000
Midwest	237	138	45	184	11783	18000	11783	32252	43000	43000	22464	23909	22809	22273	23275	22500
Southwest	50	34	4	48	13000	20000	13000	36435	31000	36435	22409	25020	22684	22000	21790	22000
West	76	46	12	58	14000	20300	14000	38700	31080	38700	27247	26367	27065	25444	26699	26500
All Schools	**627**	**406**	**91**	**511**	**11783**	**18000**	**11783**	**38700**	**43000**	**43000**	**23528**	**24124**	**23420**	**23200**	**24000**	**34500**
School Libraries																
Northeast	91	79	4	85	11400	21425	11400	56850	50000	56850	27994	31856	28223	26500	28000	26500
Southeast	117	93	7	100	10500	20088	10500	38000	32236	38000	24703	28475	24967	24040	31500	24850
Midwest	105	85	3	88	12000	21600	12000	41125	42000	51125	25873	29400	25994	25000	24600	25000
Southwest	49	38	1	39	12100	32000	12100	37500	32000	37500	25770	32000	25929	26000	32000	26000
West	16	14	2	16	12000	17000	12000	49230	26000	49230	29484	22500	28486	26500	22500	25000
All Schools	**378**	**309**	**17**	**328**	**10500**	**17000**	**10500**	**56850**	**50000**	**56850**	**26214**	**28821**	**26372**	**24300**	**26000**	**25000**
College/Univ. Libraries																
Northeast	112	58	24	85	10500	11250	10500	40000	41000	40000	25262	24829	25248	25160	23750	25000
Southeast	78	44	24	68	17000	20000	17000	33000	42666	42666	22344	25415	23428	22000	23370	22350
Midwest	193	98	45	143	12400	11440	11440	39882	38000	39882	22708	23737	23032	21500	23288	23000
Southwest	67	41	15	56	13500	18000	13500	33000	36000	36000	23035	23293	23104	22800	22000	22500
West	78	36	17	53	13500	12500	12500	34000	40000	40000	26528	26862	26635	28000	26400	27360
All Schools	**528**	**277**	**125**	**405**	**10500**	**11250**	**10500**	**40000**	**42666**	**42666**	**23730**	**24641**	**24045**	**23500**	**23700**	**23600**
Special Libraries																
Northeast	132	82	27	116	15000	12000	12000	48000	68000	68000	29788	28596	29686	30000	27000	30000
Southeast	34	27	3	30	12480	22000	12480	30000	33000	33000	23732	27013	24061	24000	26040	24500
Midwest	94	57	21	78	14000	12480	12480	40000	56000	56000	25496	25553	25511	24000	25000	24513
Southwest	35	24	9	33	16000	20000	16000	36000	57047	57047	24265	30264	25901	23600	28000	25000
West	55	31	7	38	18000	21500	18000	40000	37000	40000	26987	26672	26920	26780	24000	24960
All Schools	**350**	**221**	**67**	**295**	**12480**	**12000**	**12000**	**48000**	**68000**	**68000**	**26757**	**27589**	**27081**	**22824**	**26400**	**26000**
Other Libraries																
Northeast	29	21	3	24	19000	32000	19000	40000	37400	40000	29881	35133	30516	29400	36000	30000
Southeast	32	17	8	25	18000	22000	18000	39000	50000	50000	27726	29123	28463	26400	25000	26000
Midwest	13	9	3	12	20000	19500	19500	46000	35000	46000	26835	26840	26836	25000	26000	25358
Southwest	11	7	3	10	21800	20300	20300	40000	33000	40000	28563	28100	28424	27100	31000	28050
West	8	6	1	7	26000	33200	26000	31000	33200	33200	28583	33200	29243	28000	33200	28000
All Schools	**93**	**60**	**18**	**79**	**18000**	**19500**	**18000**	**46000**	**50000**	**50000**	**28530**	**29257**	**28698**	**27300**	**28100**	**27500**

* Includes placements undifferentiated by sex

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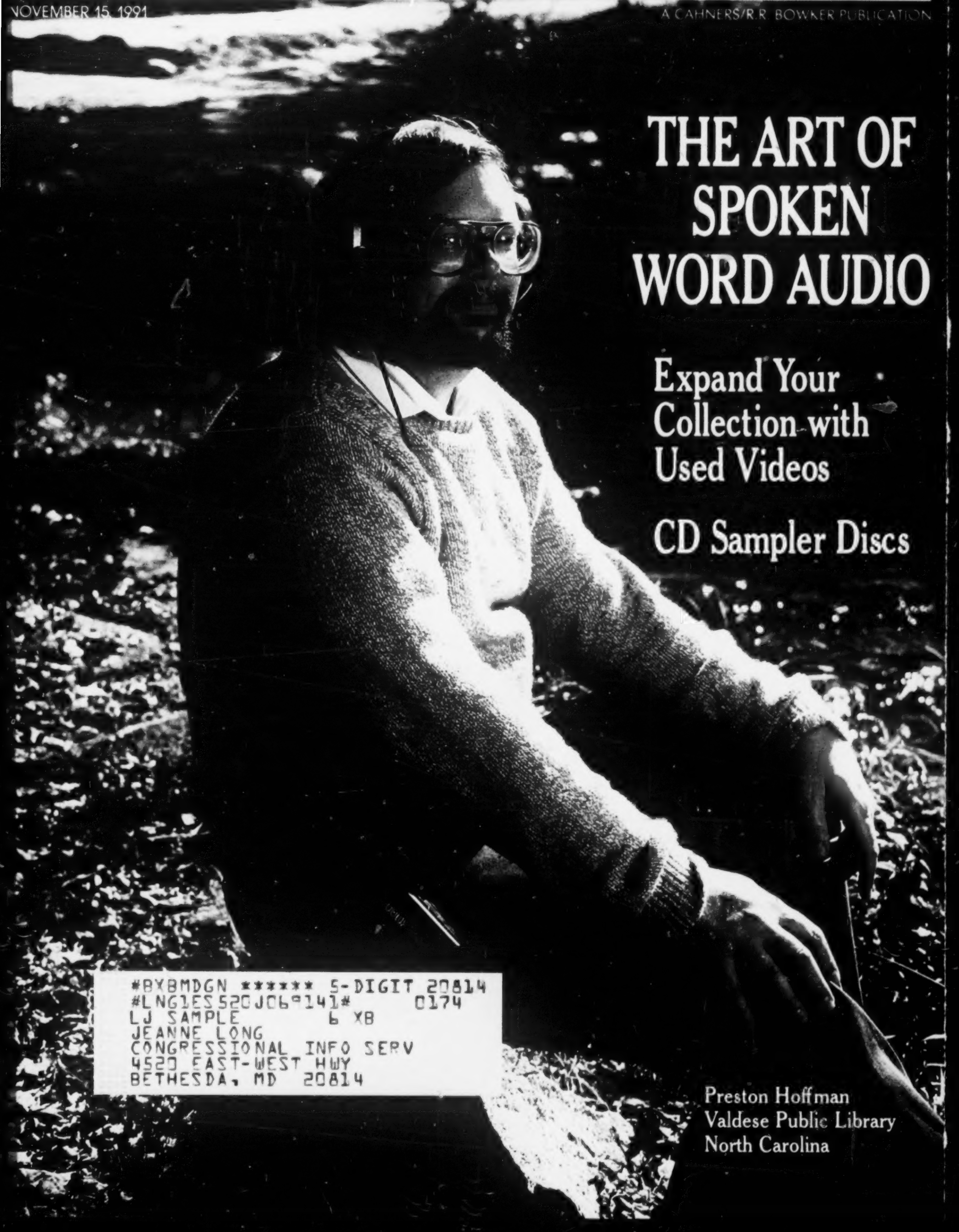

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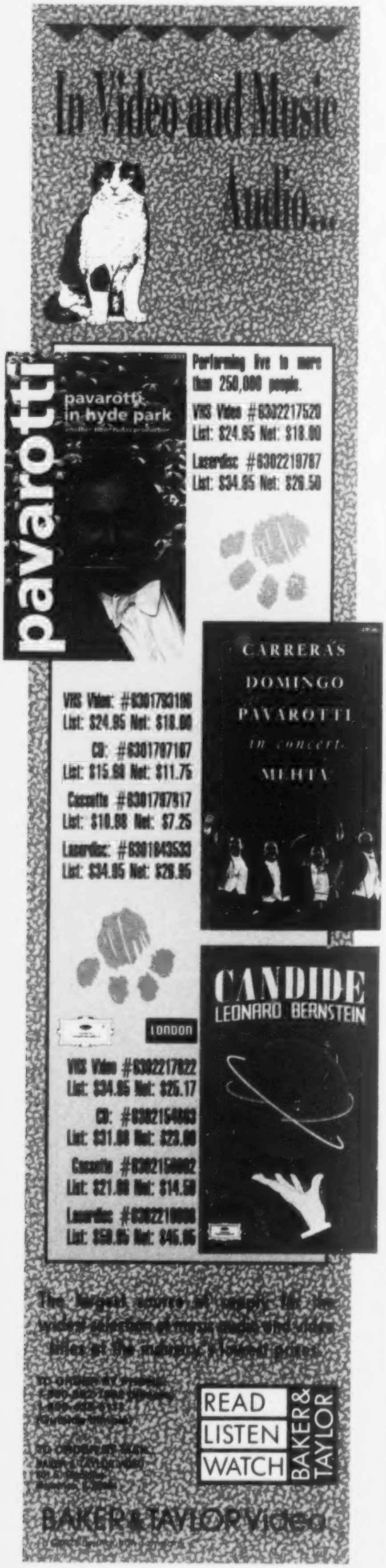
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THE ART OF SPOKEN WORD AUDIO
CD Sampler Discs

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PHOTOGRAPH BY NANCY PIERCE

November 15, 1991

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☐LIBRARY MARKET OUTLOOK☐

BY DEBORAH SELSKY

Recorded Music Prices To Stay Moderate

IN THE MIDST of the recession, one area of consumer spending that has seen a boomlet is home entertainment. As the costs of other forms of entertainment skyrocket and consumer electronics products become more affordable, Americans are spending more time at home rather than going out to a movie or the theater.

With more leisure time spent at home, people are upgrading their home entertainment audio and video equipment. The "home theater" has become the new buzzword in the consumer electronics industry. Technological advances combined with volume production has brought home electronics equipment prices within reach of millions of Americans.

What's hot, what's selling

The hottest-selling audio equipment are compact disc (CD) players, sold separately or in combination with other audio products. The Electronics Industry Association estimates sales of CD players totaled more than 9.1 million units, up significantly from the 6.9 million sold in 1989. CD players can now be found in more than 19 percent of U.S. households. Furthermore, intalling portable CD players in cars and listening to CDs while driving have become more popular.

Volume production efficiencies have allowed prices of CDs to fall substantially over the past five years. From 1985 to 1990, the average price of a CD fell 6.9 percent per year. Average unit CD prices fell from $17.23 in 1985 to $12.05 in 1990.

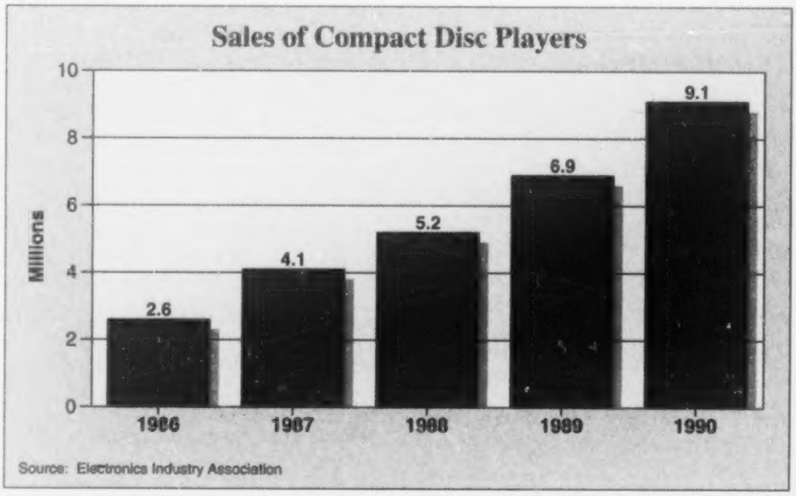
Price reductions have slowed, however, and are expected to level off by 1992. Veronis, Suhler, & Associates estimate the average CD price will be $11.90 this year and predict prices will fall to $11.70 for the following two years.

Everyone loves CDs

Due to their size, convenience, and sound quality, CDs have been quickly replacing long-playing records (LPs). In fact, LPs are expected to virtually disappear as a format for recorded music by 1993. Only 11.7 million LPs were sold last year as compared to 286 million CDs sold. The average price of an LP was $7.39 in 1990 and is expected to remain flat over the next few years.

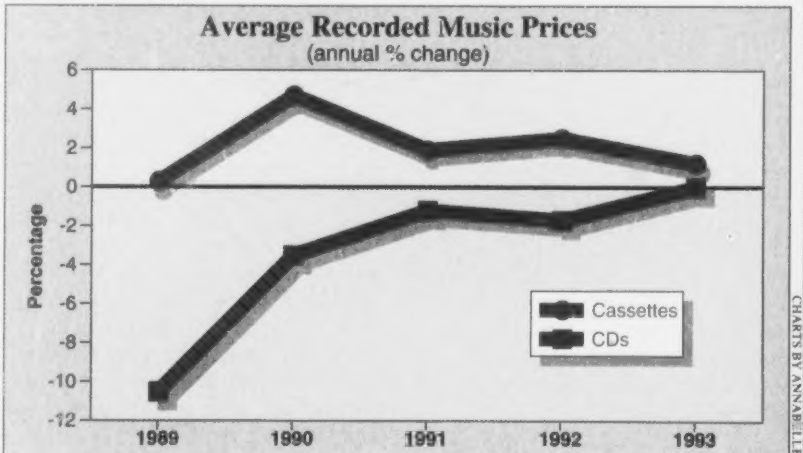
Cassette prices, on the other hand, have seen moderate price increases over the past few years. Following a 4.7 percent gain in 1990, average cassette prices are expected to increase a slight 1.9 percent in 1991. Average unit price increases for cassettes will register 1.6 percent through 1995, slower than the two percent annual rate from 1985 to 1990.

With the popularity and large household penetration of videocassette recorders (VCRs), music videos have become a popular item. The average price for a music video was $18.73 in 1990. Music video prices are expected to drop steadily by 5.7 percent per year, on average, through 1995.



Sales of Compact Disc Players

Source: Electronics Industry Association



Average Recorded Music Prices
(annual % change)

Source: Veronis, Suhler & Associates

CHARTS BY ANNABELLE CARTER

Deborah Selsky is an economist with Cahners Economics, which provides industry analyses and forecasting services for the markets its magazines serve

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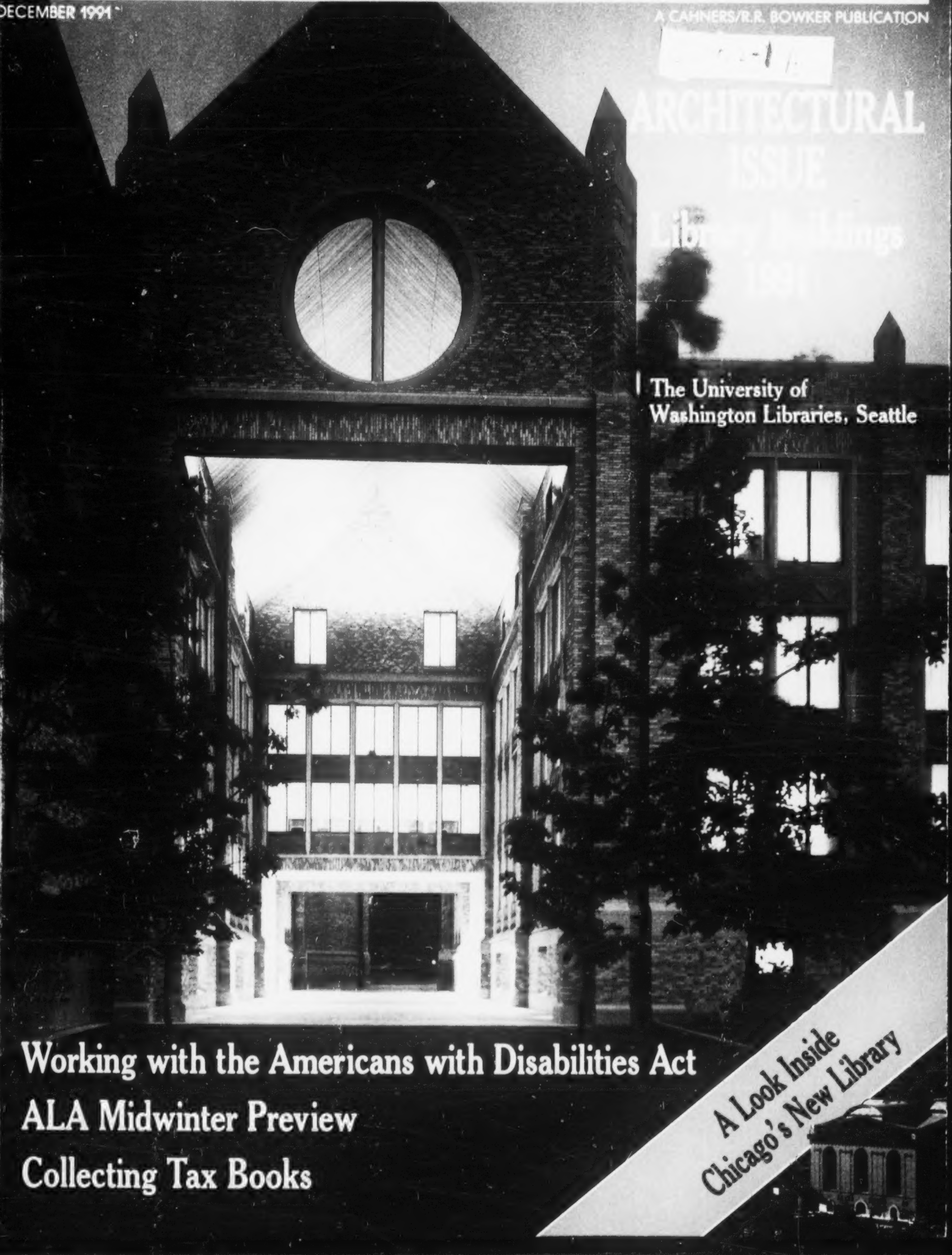

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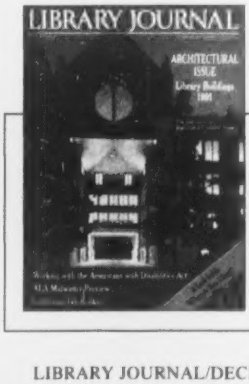

The cover of this year's Architectural Issue highlights the University of Washington Libraries' $38 million addition and renovation project. Our complete coverage of library construction activity begins on page 58.

PHOTOGRAPH BY NICK WHEELER

December 1991

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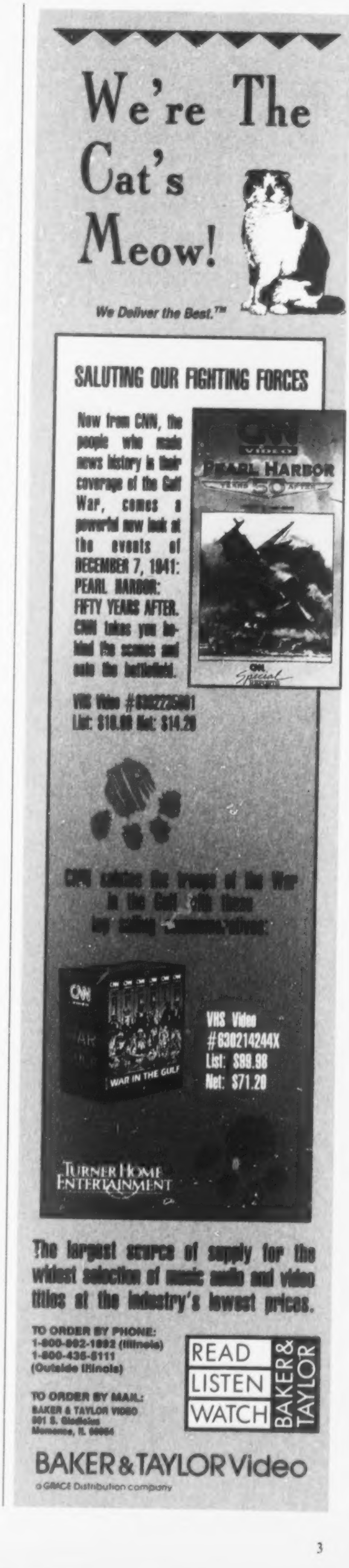
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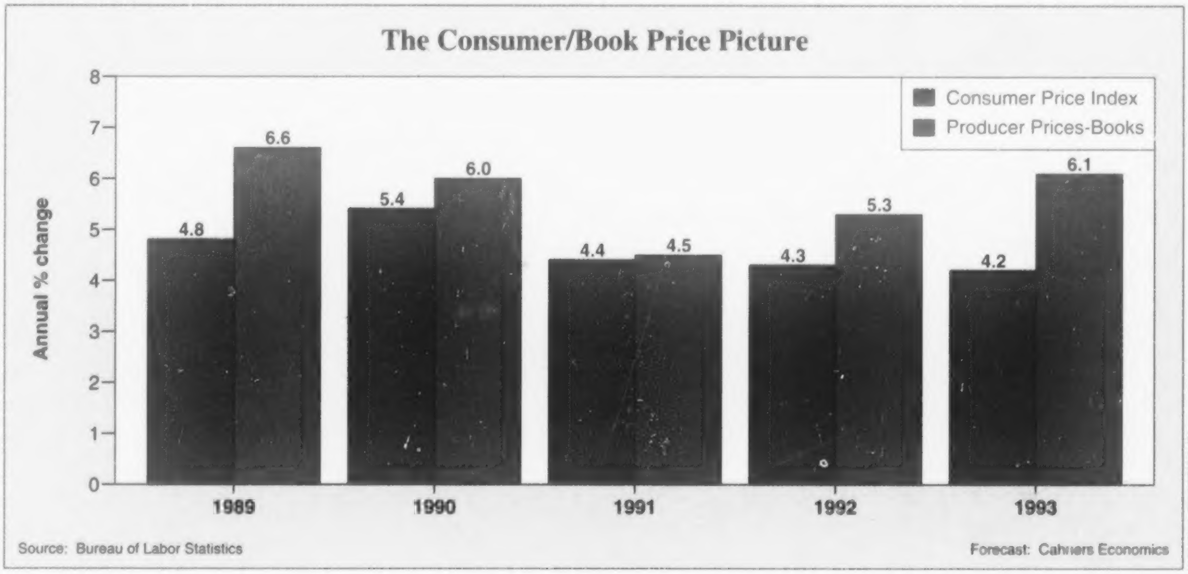
☐LIBRARY MARKET OUTLOOK☐

BY DEBORAH SELSKY

Recession Holds Down Price Hikes; Book Prices Follow Suit

After deteriorating markedly between fourth-quarter 1990 and first-quarter 1991, the U.S. economy made a modest improvement during the second quarter of this year. So far, economic indicators show no substantial improvements through the rest of the year.


The Consumer/Book Price Picture

Source: Bureau of Labor Statistics

Forecast: Cahners Economics

ANNABELLE CARTER

Keeping prices down

One positive outcome from the recent economic downturn: the recession has done its part to hold down price hikes. This price slowdown is beginning to show up as moderating increases in the consumer price index (CPI).

Last year, price inflation was the highest the nation had seen since 1981. Price inflation was boosted primarily by energy shortage fears. As these fears subsided in early 1991, price growth decelerated.

The rate of growth in consumer prices recently peaked in mid-1991. Compared to last year, the consumer price index rose 4.7 percent in the first nine months of 1991.

Consumer price forecast

A slow-growing economy should keep the price increases at fairly modest levels over the next several quarters. Cahner's Economics forecasts consumer price gains of 4.4 percent in 1991 and 4.3 percent in 1992.

Growth rates of book prices have also slowed over the last few months. This slowdown comes as a welcome change given that, during the past two years, the producer price index for book publishing increased a solid 6.6 percent and six percent, respectively.

Slowing price pass-along

Book price inflation is bound to slow as overall inflation trends ease. Prices of inputs, such as paper and employee wages, are growing at a much slower pace. Furthermore, demand for books has stagnated, making it more difficult for publishers to keep passing along price increases to maintain high profit margins.

In the first seven months of 1991, book publishing prices increased five percent above the same period a year ago. But the July 1991 level was only 1.7 percent above July 1990. Prices should continue to slow through the early part of next year, and growth rates should not reach the six percent mark until mid-1993. Gains of 4.5 percent in 1991 and 5.3 percent in 1992 are expected.

Prices by category

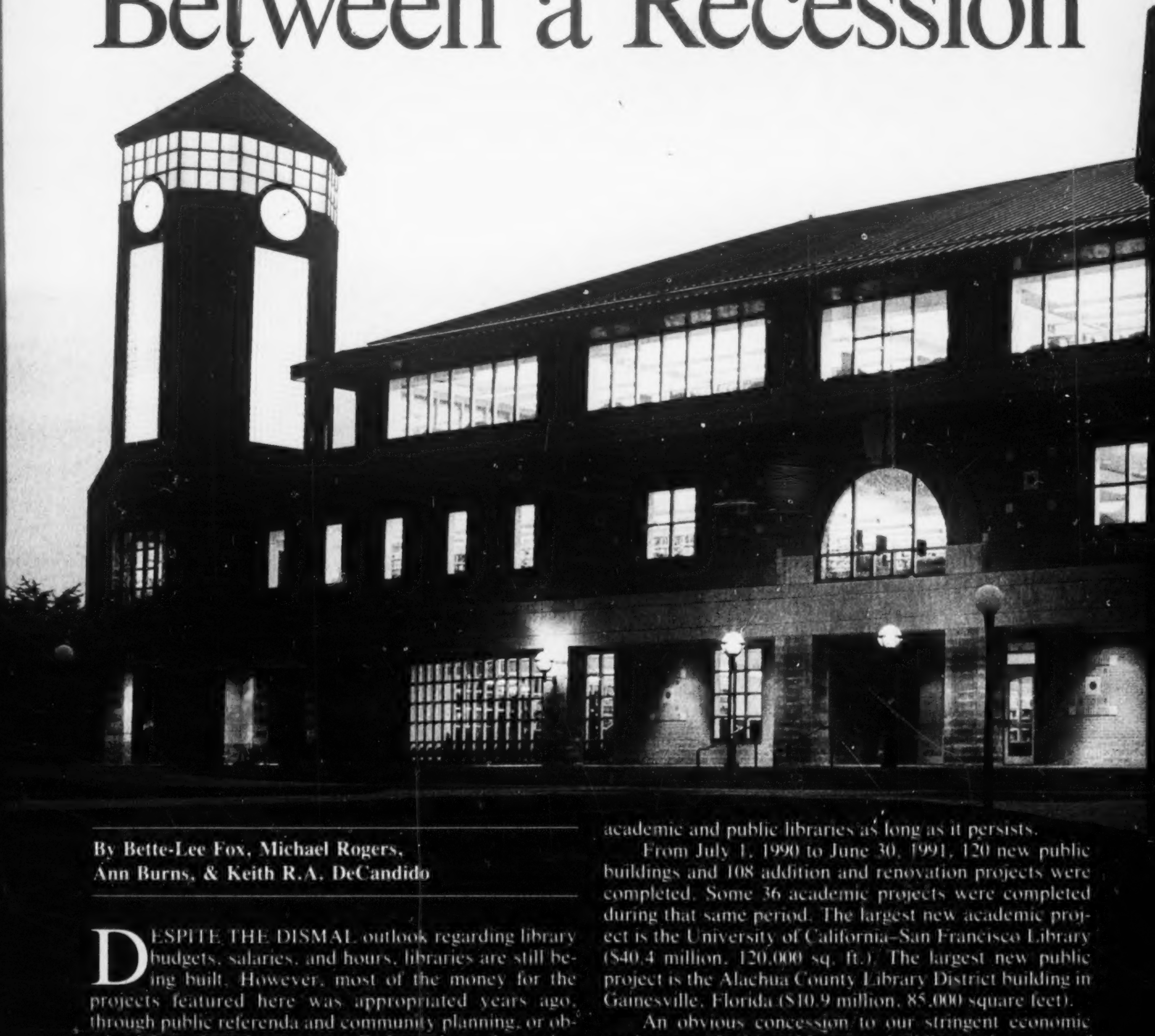
By category, book prices vary a great deal. Unfortunately for libraries, prices of reference books continue to increase. So far this year, general reference book prices have grown 6.2 percent above last year. Within this category, encyclopedias claim the fastest-growing price tags. Encyclopedia book prices have increased 7.6 percent since the beginning of the year.

Among the other book categories, prices have been much more reasonable. Comparing this year to last, price increases of trade books were 2.6 percent, religious books were 1.8 percent, and professional books were 4.6 percent.

Deborah Selsky is an economist with Cahners Economics, which provides industry analyses and forecasting services for the markets its magazines serve

Will dire economic forecasts severely darken our capital improvement picture despite the

Between a Recession



FRANK GIULIANI

By Bette-Lee Fox, Michael Rogers, Ann Burns, & Keith R.A. DeCandido

DESPITE THE DISMAL outlook regarding library budgets, salaries, and hours, libraries are still being built. However, most of the money for the projects featured here was appropriated years ago, through public referenda and community planning, or obtained from the private sector. Perhaps the real question is whether some of the 948 buildings in progress (p. 76) will be allowed to wither and die in their various stages of wishful thinking. In the meantime, how are we going to stock and staff the newly finished libraries?

The outcome is not clear. Nor is it necessarily bleak. But library growth must be watched carefully, and *LJ* will continue to monitor the capital improvement activity of academic and public libraries as long as it persists.

From July 1, 1990 to June 30, 1991, 120 new public buildings and 108 addition and renovation projects were completed. Some 36 academic projects were completed during that same period. The largest new academic project is the University of California–San Francisco Library ($40.4 million, 120,000 sq. ft.). The largest new public project is the Alachua County Library District building in Gainesville, Florida ($10.9 million, 85,000 square feet).

An obvious concession to our stringent economic environment is the multipurpose building at the center of several new projects. Libraries are sharing space and costs with police departments, community centers, senior citizens centers, and healthcare facilities in order to get the most use from limited funds.

What will the future hold for libraries hoping to expand or improve their services by undertaking a capital improvement project? Will patrons come to the rescue of libraries by voting funds and donating money as government participation continues to recede? Or will libraries be abandoned by the public and private sectors alike? The 1992 Architectural Issue will have some of the answers.

Bette-Lee Fox is Managing Editor, Michael Rogers is Assistant News Editor, Ann Burns is Staff Editor, and Keith R.A. DeCandido is Assistant Editor/Keyboard, *LJ*

large number of library projects completed in FY91?

and a Hard Place

The Roger Williams College *Library in Bristol, Rhode Island is a new $7.3 million, 56,000 square foot building designed by Robinson Green Beretta Corporation of Providence, R.I. The library holds 154,000 volumes and has 425 seats*

LIBRARY BUILDINGS 1991

ACADEMIC

ARCHITECT: SHEPLEY BULFINCH . . . PHOTO: JEAN M SMITH

Martin Library of the Sciences, Franklin & Marshall College, Lancaster, Pa.

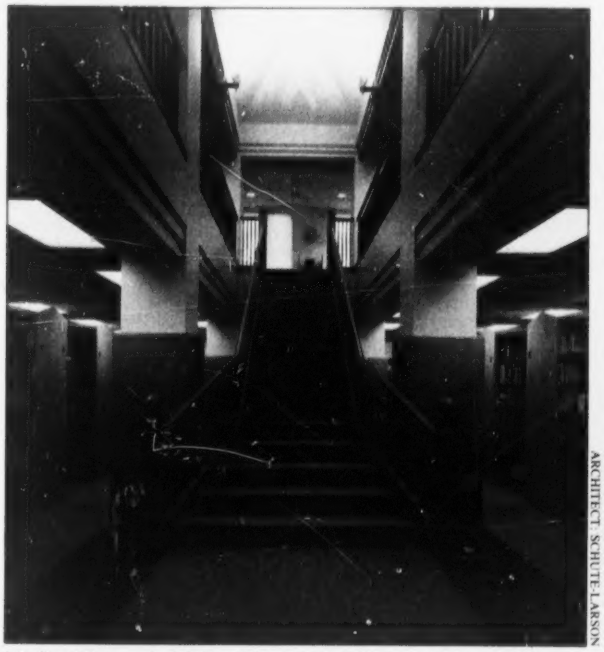
ARCHITECT: HOENER & ASSOCIATES

Fintel Library, Roanoke College, Salem, Va.

New Buildings

Name of Institution	Project Cost	Gross Area	Sq. Ft. Cost	Construction Cost	Equipment Cost	Book Capacity	Seating Capacity	Architect
University of California, San Francisco	$40,379,829	120,000	$305.51	$36,661,444	$3,400,660	600,000	904	Esherick Homsey Dodge & Davis
University of California Science Library, Santa Cruz	13,111,000	74,138	151.46	11,228,950	497,000	275,000	860	Esherick Homsey Dodge & Davis
Salve Regina University, Newport, R.I.	8,600,000	71,000	112.68	8,000,000	600,000	235,000	450	Robinson Green Beretta
Shawnee State University, Portsmouth, Ohio	7,500,000	72,000	77.75	5,597,650	800,000	145,000	600	Hayes, Tanner, & Stone
Roger Williams College, Bristol, R.I.	7,348,000	55,928	121.01	6,768,000	580,000	154,000	425	Robinson Green Beretta
Longwood College, Farmville, Va.	6,683,500	71,000	80.99	5,750,500	993,000	410,366	900	Odell Assocs.
David Lipscomb University, Nashville, Tenn.	5,250,000	55,852	85.94	4,800,000	450,000	204,400	559	Tuck Hinton Everton
Martin Lib. of the Sciences & Computer Center, Franklin & Marshall College, Lancaster, Pa.	5,050,000	34,700	131.98	4,579,625	200,000	80,000	126	Shepley Bulfinch . . .
Young Science Library, Smith College, Northampton, Mass.	4,300,000	22,376	143.01	3,200,000	1,100,000	135,000	115	Shepley Bulfinch . . .
Cornell Library, Vermont Law School, S. Royalton	3,663,000	34,000	84.94	2,888,000	n/a	300,000	350	Truex deGroot Cullins
Edgewood College, Madison, Wis.	3,100,000	41,000	n/a	n/a	n/a	100,000	200	Durrant Group
Miramar College Library/Learning Resources Center, San Diego	1,424,764	10,600	118.66	1,257,764	167,000	15,000	118	Blurock Partnership
Burlington Textiles Library, North Carolina[1] State University, Raleigh	n/a	12,700	102.36	1,300,000	75,000	35,000	150	Walter, Robbs . . .
Atlanta Christian College, East Point, Ga.	1,200,000	20,000	60.00	1,200,000	0	100,000	125	Thomas F. Williams

[1] Library part of 300,000 sq. ft. $30 million building complex.



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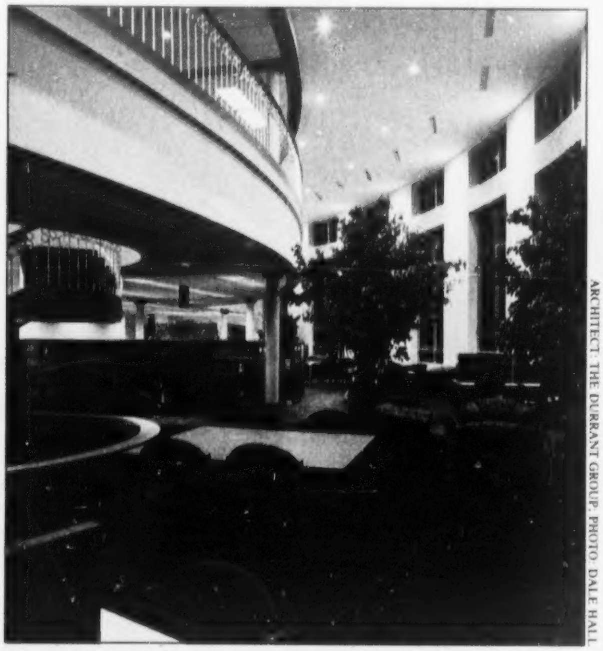
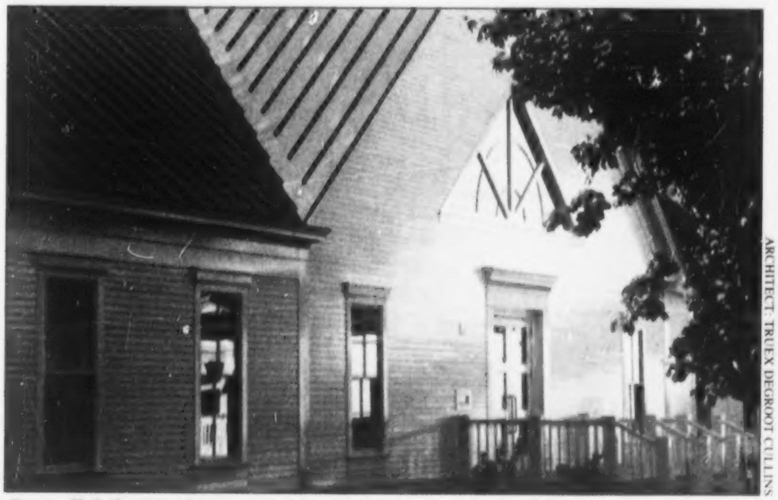


ARCHITECT: THE DURRANT GROUP. PHOTO: DALE HALL

Rennebohm Lib., Edgewood College, Madison, Wis.



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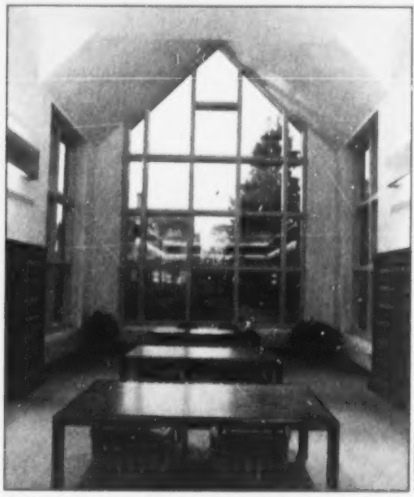

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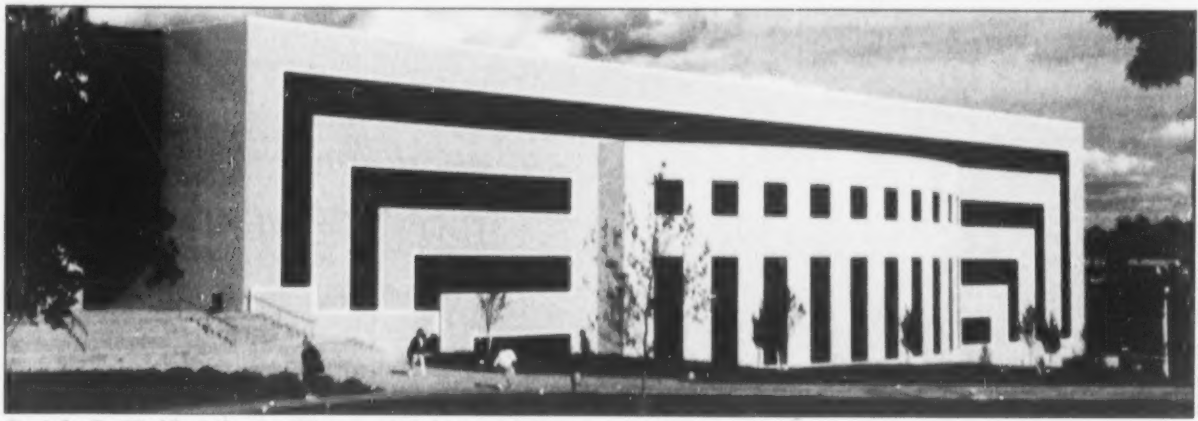
Salve Regina University, Newport, R.I.



ARCHITECT: THE WBDC GROUP

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David Lipscomb University Library, Nashville, Tenn.

Additions and Renovations

Name of Institution	Status	Project Cost	Gross Area	Sq.Ft. Cost	Construction Cost	Equipment Cost	Book Capacity	Seating Capacity	Architect
Allen & Suzallo Libraries, University of Washington, Seattle	Total	$38,000,000	274,929	$88.75	$24,400,000	$3,400,000	1,056,000	592	Edward Larrabee Barnes; John M.V. Lee
	New	36,200,000	215,000	106.97	23,000,000	3,000,000	1,056,000	592	
	Renovated	1,800,000	59,929	23.36	1,400,000	400,000	0	0	
Western Michigan University, Kalamazoo	Total	19,200,000	258,595	62.65	16,200,000	3,000,000	1,400,000	1,800	WBDC Group
	New	n/a	104,672	n/a	n/a	n/a	n/a	n/a	
	Renovated	n/a	153,923	n/a	n/a	n/a	n/a	n/a	
California State University, Northridge	Total	18,542,000	128,196	131.62	6,873,000	933,000	1,082,750	1,079	Leo A. Daly
	New	n/a	110,732	n/a	n/a	n/a	n/a	n/a	
	Renovated	n/a	17,464	n/a	n/a	n/a	n/a	n/a	
Hamon Arts Library, Southern Methodist University, Dallas	Total	10,400,000	86,974	72.48	6,304,000	1,930,000	140,000	300	Milton Powell
	New	5,408,000	45,520	72.01	3,278,080	1,207,000	140,000	300	
	Renovated	4,992,000	41,454	72.99	3,025,920	723,000	0	0	
Rotch Library of Architecture, Planning & Art, Massachusetts Institute of Technology, Cambridge	Total	7,500,000	26,666	193.09	5,148,998	450,000	180,000	157	Schwartz/Silver
	New	n/a	17,483	n/a	n/a	n/a	170,000	67	
	Renovated	n/a	9,183	n/a	n/a	n/a	10,000	90	
Roanoke College, Salem, Va.	Total	7,041,075	76,000	85.21	6,475,908	538,167	300,000	430	Horner & Assocs.
	New	n/a	47,000	n/a	n/a	n/a	n/a	n/a	
	Renovated	n/a	29,000	n/a	n/a	n/a	n/a	n/a	
Jason Library-Learning Center, Delaware State College, Dover	Total	5,266,353	96,637	48.38	4,674,976	591,377	300,000	970	Martin F. Shannon
	New	n/a	42,305	n/a	n/a	n/a	n/a	n/a	
	Renovated	n/a	54,332	n/a	n/a	n/a	n/a	n/a	
University of Missouri-Kansas City	Total	5,132,124	119,352	33.92	4,048,000	470,000	730,000	1,729	Peckham Guyton
	New	4,333,992	66,320	51.40	3,440,000	470,000	180,000	1,029	
	Renovated	798,132	52,432	11.60	608,000	0	550,000	700	
Wabash College, Crawfordsville, Ind.	Total	4,816,500	61,428	66.75	4,100,115	454,661	276,000	281	Browning Day
	New	n/a	19,750	121.52	2,400,115	n/a	n/a	n/a	
	Renovated	n/a	41,678	40.79	1,700,000	n/a	n/a	n/a	
Harding University, Searcy, Ark.	Total	2,300,000	44,450	44.99	2,000,000	300,000	235,000	475	Horace A. Piazza
	New	n/a	7,168	n/a	n/a	n/a	n/a	n/a	
	Renovated	n/a	37,282	n/a	n/a	n/a	n/a	n/a	
York College of Pennsylvania	Total	922,000	42,928	21.48	922,000	0	130,800	410	Associated Architects
	New	n/a	3,728	80.00	298,240	0	10,800	108	
	Renovated	n/a	39,200	15.91	623,760	0	120,000	302	
Embry-Riddle Aeronautical University, Prescott Campus Library, Prescott, Ariz.	Total	456,800	16,080	24.66	396,524	60,275	25,000	280	Reilly, Zucker
	New	449,523	6,240	62.38	389,247	60,275	0	197	
	Renovated	7,277	9,840	00.74	7,277	0	25,000	83	

ARCHITECT: ENG/SIX ASSOCIATES

Hill Library, North Carolina State Univ., Raleigh

ARCHITECT: WALTER, ROBBS, CALLAHAN & PIERCE; PHOTO: JIM SINK

Burlington Textiles Library, N.C. State, Raleigh

ARCHITECT: ESHERICK HOMSEY DODGE & DAVIS; PHOTO: PETER AARON/ESTO

Science Library, University of California–Santa Cruz

Additions Only

Name of Institution	Project Cost	Gross Area	Sq. Ft. Cost	Construction Cost	Equipment Cost	Book Capacity	Seating Capacity	Architect
Hill Library, North Carolina State University, Raleigh	$9,325,000	106,642	$84.54	$9,015,000	$310,000	487,250	977	ENG/Six Associates

Renovations Only

Name of Institution	Project Cost	Gross Area	Sq.Ft. Cost	Construction Cost	Equipment Cost	Book Capacity	Seating Capacity	Architect
Fine Arts Library, University of Pennsylvania, Philadelphia	$8,500,000	26,800	n/a	n/a	$435,000	108,000	335	Venturi, Scott, Brown
Morse Library, Beloit College, Wis.	3,500,000	53,000	56.11	2,974,000	526,000	380,000	306	DeStefano/Goettsch
Viterbo College, La Crosse, Wis.	1,421,090	27,504	32.32	888,866	145,000	101,120	254	Schute-Larson
Library West, University of Florida, Gainesville	398,000	12,000	33.17	398,000	0	570,000	100	Gene Davis
Lesley College, Cambridge, Mass.	350,000	16,550	21.15	350,000	0	120,000	101	Dennis J. Carlone
Ringling School of Art & Design, Sarasota, Fla.	130,717	6,800	17.65	120,000	10,717	20,000	52	Don Lawson
D'Youville College, Buffalo, N.Y.	n/a	3,450	14.06	48,500	n/a	n/a	n/a	D'Youville College
Hartford Graduate Center Library, Ct.	15,621	672	23.25	15,621	0	n/a	n/a	none
Pennsylvania State University, Altoona Campus	6,000	12,000	2.00	2,800	3,200	45,000	180	none

LIBRARY BUILDINGS 1991

PUBLIC

ARCHITECT: LEONARD PARKER; PHOTO: GEORGE HEINRICH

Galaxie Library, Apple Valley, Minn.

ARCHITECT: FRYE GILLAN MOLINARO

Seneca Public Library, Ill.

ARCHITECT: HARDY HOLZMAN PFEIFFER; PHOTO: PAUL WORCHOL

New Haven Free Public Library, Ct.

New Buildings

Community	Pop. in M	Code	Project Cost	Const. Cost	Gross Sq. Ft.	Sq.Ft. Cost	Equip. Cost	Site Cost	Other Costs	Volumes	Reader Seats	Federal Funds	State Funds	Local Funds	Gift Funds	Architect
ARIZONA																
Phoenix	150	MS	$6,399,940	$4,653,830	66,000	$70.51	$1,200,000	Owned	$546,110	250,000	471	0	0	$6,399,940	0	Anderson DeBartolo Pan
CALIFORNIA																
Covina	13	B	59,080	24,300	2,600	9.35	34,780	Leased	0	20,000	22	0	0	53,380	5,700	none
El Cajon	89	B	4,013,015	3,515,608	30,166	116.54	202,407	Owned	295,000	200,000	170	570,889	0	3,392,626	151,264	Decker & Assocs.
Roseville	10	B	1,610,673	1,249,683	10,300	121.33	151,009	Owned	209,981	30,000	61	0	138,029	1,472,644	0	Barnum & Folsom
Stratford	46	B	445,286	310,923	3,400	91.45	67,826	28,421	38,116	15,000	50	228,698	0	228,698	0	Donald Christensen
COLORADO																
Estes Park[1]	11	M	1,374,773	867,127	13,652	63.52	227,738	Leased	279,908	40,000	109	0	0	1,354,773	20,000	Thorp Assocs.
FLORIDA																
Brandon	93	B	2,538,000	2,300,000	30,000	76.67	75,000	n/a	163,000	120,000	175	0	0	2,538,000	n/a	James A. Jennewein
Daytona Beach	370	S	664,346	498,346	10,000	49.83	120,000	Owned	46,000	0	0	0	200,000	464,346	0	Dana Smith
Fort Myers	349	B	1,072,069	642,021	7,000	91.72	228,142	Owned	201,906	35,000	55	0	0	1,047,279	24,790	Gora/McGahey/Lee
Gainesville	187	MS	10,877,951	7,820,500	85,000	92.01	502,611	200,000	2,354,840	400,000	240	0	0	10,853,951	24,000	Hunter-McKellips;Turnbull
Indiantown	5	B	610,528	474,528	5,009	94.74	104,212	1	31,787	10,000	44	0	216,980	314,989	78,559	John M. Foster
Jacksonville	40	B	4,725,000	2,364,964	23,000	102.83	392,710	221,636	1,745,690	100,000	116	0	200,000	4,525,000	0	Bhide & Hall
Miami[2]	250	B	2,150,000	1,340,000	41,400	32.37	650,000	Leased	160,000	175,000	350	0	0	2,150,000	0	H.J. Ross
New Port Richey	14	M	1,979,721	1,496,376	15,230	98.25	0	421,345	62,000	50,000	100	400,000	0	1,158,376	421,345	Gee & Jensen
New Port Richey	60	B	1,316,353	907,555	11,181	81.17	175,000	219,385	14,413	40,000	111	0	0	1,316,353	0	Fletcher, Valenti . . .
Tallahassee	195	M	10,362,391	8,231,627	88,300	93.22	514,900	525,000	1,090,864	382,000	312	200,000	0	9,980,391	182,000	Jim Roberson
GEORGIA																
Atlanta	5	B	908,560	446,618	4,000	111.65	122,190	250,000	89,752	10,000	40	0	0	908,560	0	Leo A. Daly
Atlanta	15	B	766,495	353,253	5,000	70.65	157,428	197,500	58,314	10,000	40	0	0	766,495	0	Leo A. Daly
Buena Vista	6	B	437,259	297,627	4,300	69.22	104,705	Owned	34,927	18,000	30	0	393,533	43,726	0	Mike Parker
Chamblee	15	B	740,580	388,809	4,000	97.20	125,161	125,000	101,610	10,000	40	0	0	740,580	0	Leo A. Daly
Clarkston	38	B	1,447,155	954,664	10,000	95.47	293,585	108,900	90,006	45,000	78	0	0	1,447,155	0	Stevens/Wilkinson; Brown
Decatur	38	B	1,576,246	1,125,460	10,000	112.55	331,510	Owned	119,276	25,000	72	0	0	1,576,246	0	Stevens/Wilkinson; Brown
Decatur	26	B	1,693,980	1,086,020	10,000	108.60	290,703	227,000	90,257	45,000	78	0	0	1,693,980	0	Stevens/Wilkinson; Brown
Decatur[3]	n/a	B	99,711	86,500	300	288.33	n/a	Leased	13,211	5,000	8	0	0	99,711	0	Porta-Structures
Decatur	50	B	2,978,735	1,888,100	21,500	87.82	696,821	149,475	244,339	85,000	121	0	1,900,649	1,078,086	0	Stevens/Wilkinson; Brown
Helen	3	BS	393,108	269,440	4,200	64.15	48,844	40,000	34,824	14,000	44	0	282,754	69,304	41,050	Walden, Ashworth
Hogansville	7	B	420,434	252,403	3,500	72.12	75,723	20,000	72,308	12,000	29	0	343,300	57,057	20,077	James W. Buckley
Lithonia	15	B	767,554	482,913	4,000	120.73	122,190	99,884	62,567	10,000	40	0	0	767,554	0	Leo A. Daly
Montezuma	9	B	552,372	363,429	6,500	55.91	142,767	Owned	46,176	22,270	106	0	480,245	53,223	18,904	Brittain, Thompson, Bray
Oakwood	32	B	1,204,357	898,750	12,970	69.29	245,069	Owned	60,538	82,000	135	0	919,571	284,786	0	Garland Reynolds
Redan	70	B	3,228,242	1,848,310	21,500	85.97	696,821	515,160	167,951	85,000	121	0	1,853,160	1,375,082	0	Stevens/Wilkinson; Brown
Stone Mountain	15	B	1,103,109	411,794	4,000	102.95	122,190	510,998	58,127	10,000	40	0	0	1,103,109	0	Leo A. Daly
Tallapoosa	6	B	455,256	333,012	4,000	83.25	81,199	Owned	41,045	16,520	42	0	403,230	52,020	0	Alex Roush
Tucker	20	B	1,879,561	1,078,540	10,000	107.85	258,340	391,475	151,206	45,000	63	0	0	1,879,561	0	Stevens/Wilkinson; Brown

Symbol Code: B—Branch Library; BS—Branch & System Headquarters; M—Main Library; MS—Main & System Headquarters; S—System Headquarters; n/a—not available

ARCHITECT: WALLACE & BATES

Peggy V. Helmerich Library, Tulsa, Okla.

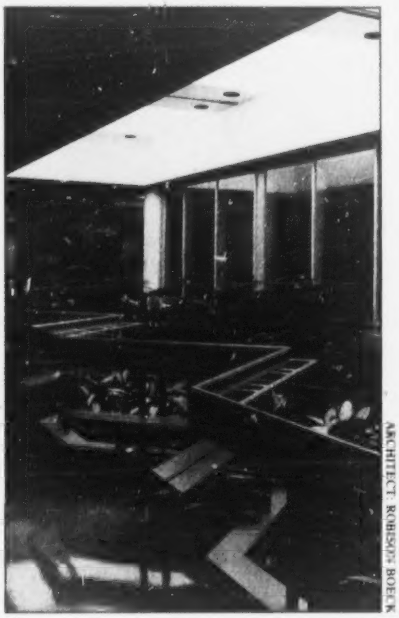
New Buildings (continued)

Community	Pop. in M	Code	Project Cost	Const. Cost	Gross Sq. Ft.	Sq. Ft. Cost	Equip. Cost	Site Cost	Other Costs	Volumes	Reader Seats	Federal Funds	State Funds	Local Funds	Gift Funds	Architect
ILLINOIS																
Chicago	5	B	$630,273	$340,951	12,000	$28.41	$270,000	Leased	$19,322	65,000	82	0	0	$630,273	0	Andrew S. Jaworksi
Chicago	40	B	3,000,000	2,065,000	12,600	163.89	175,000	400,000	360,000	50,000	96	0	1,250,000	1,750,000	0	Kendall Fleming
Elk Grove Village	33	M	6,610,371	4,915,745	63,000	78.03	1,168,865	Owned	525,761	275,000	377	0	250,000	6,360,371	0	Wendt, Cedarholm
Fairview Heights	14	M	1,816,642	1,656,642	20,000	82.83	60,000	Owned	100,000	35,000	57	200,000	0	1,493,095	123,547	EWR & Assocs.
Girard	3	M	345,589	273,932	5,787	47.34	9,474	1	62,182	22,000	33	0	132,000	17,000	223,269	Stanton J. Gralnick
Maquon	2	M	138,867	118,120	1,960	60.27	0	10,500	10,247	13,000	13	0	50,937	62,579	25,351	Lavierdere Construction
Morrisonville	1	M	121,000	116,000	2,100	55.24	0	5,000	0	5,000	30	0	40,000	54,000	30,000	Morton Bldgs.
Richmond[4]	5	M	831,000	634,000	9,000	70.44	62,000	28,000	107,000	35,000	35	250,000	0	581,000	0	David L. Jenkins
Seneca	3	M	1,350,000	987,000	9,480	104.11	150,495	72,852	139,653	27,000	46	0	0	1,350,000	0	Frye Gillan Molinaro
INDIANA																
Bicknell	8	M	211,897	182,500	4,536	40.23	24,690	4,432	275	100,000	25	0	0	1,212	210,685	Ridgeview Homes
Ellettsvilie	15	B	1,622,762	1,002,093	10,460	95.80	157,391	312,450	150,828	40,000	85	199,206	0	1,421,556	2,000	Pecsok, Jelliffe
IOWA																
Earlville	1	M	85,016	69,000	1,800	38.33	10,016	Owned	6,000	12,000	16	0	0	75,000	10,016	Craig D. Schwerdtfeger
Nevada	12	M	947,085	724,345	11,000	65.85	122,475	Owned	100,265	45,000	68	0	3,000	792,000	152,085	Rudi-Lee-Dreyer
KANSAS																
Gridley[5]	3	B	427,762	331,858	4,300	77.18	43,205	14,950	37,749	20,000	22	0	0	427,762	0	David G. Emig
Waverly	3	B	410,451	313,429	4,200	74.63	48,039	15,000	33,983	20,000	22	0	0	408,751	1,700	Davig G. Emig
MARYLAND																
Savage[6]	28	B	3,488,000	2,464,000	20,500	120.20	501,000	244,000	279,000	50,000	80	0	0	3,488,000	0	Greenman-Pedersen
MASSACHUSETTS																
W. Bridgewater	8	M	1,306,037	1,195,037	12,074	98.98	50,000	Owned	61,000	60,000	75	0	0	1,236,037	70,000	Robert Therrien
Norton	15	M	2,000,000	1,570,175	15,175	103.47	165,870	Owned	263,955	60,000	80	0	0	1,500,000	500,000	Richard O'Neil
Wareham	20	M	2,693,515	2,261,116	20,450	110.57	263,112	Owned	169,287	85,000	140	115,160	1,142,570	1,277,730	158,055	Amsler Woodhouse
MICHIGAN																
Schoolcraft	5	M	170,309	131,150	3,000	43.72	11,000	25,000	3,159	15,000	34	0	0	22,000	148,309	Norm Hamann
MINNESOTA																
Apple Valley	56	B	3,794,510	3,027,510	28,500	106.23	432,000	335,000	n/a	100,000	n/a	200,000	0	3,594,510	0	Leonard Parker
Duluth	9	B	2,365,386	1,591,615	16,636	95.67	109,024	183,978	480,769	25,000	69	1,560,000	292,500	452,913	59,973	Schaefer, Meyer
Melrose	6	B	252,268	197,719	2,850	69.38	38,518	Owned	16,031	15,000	37	0	0	252,268	0	Boarman & Assocs.
Mahtomedi	10	B	1,379,629	1,093,140	9,003	121.42	65,298	146,826	74,365	25,000	33	0	0	1,379,629	0	SKD Architects
Mounds View	15	B	1,816,230	824,617	8,000	103.08	156,644	493,908	341,061	46,000	46	0	0	1,816,230	0	Buetow & Assocs.
MISSISSIPPI																
Pelahatchie	2	B	111,500	80,000	1,680	47.62	8,800	15,000	4,700	8,500	14	0	0	111,500	0	Robb Farr

Symbol Code: B—Branch Library; BS—Branch & System Headquarters; M—Main Library; MS—Main & System Headquarters; S—System Headquarters; n/a—not available

ARCHITECT: HUNTER-MCKELLIPS; CONSULTANT: WM. TURNBULL; PHOTO: GORDON H. SCHENCK JR.

Alachua County Library District, Gainesville, Fla.



ARCHITECT: ROBISON BOECK

Library for the Blind & Physically Handicapped, Oklahoma City

New Buildings (continued)

Community	Pop. in M	Code	Project Cost	Const. Cost	Gross Sq. Ft.	Sq. Ft. Cost	Equip. Cost	Site Cost	Other Costs	Volumes	Reader Seats	Federal Funds	State Funds	Local Funds	Gift Funds	Architect
MISSOURI																
Independence	50	B	$962,700	$700,634	17,887	$39.17	$108,083	$124,500	$29,483	$170,000	132	0	0	$962,700	0	Tognascioli, Gross . . .
Kansas City	56	B	922,525	615,066	15,580	39.48	136,497	147,219	23,743	115,000	110	0	0	922,525	0	Tognascioli, Gross . . .
Lee's Summit	70	B	1,049,111	677,938	17,500	38.74	187,329	157,500	26,344	173,000	124	0	0	1,049,111	0	Tognascioli, Gross . . .
Union	15	MS	958,310	731,079	10,696	68.35	33,074	130,000	64,157	90,000	55	298,378	0	0	659,932	Robert A. Horn
NEBRASKA																
Clarkson	1	M	178,320	142,810	3,000	47.60	9,870	10,900	14,740	10,000	10	62,500	0	0	115,820	Krhounek & Povondra
NEVADA																
Round Mountain	2	M	594,000	474,000	5,020	94.42	56,900	30,000	33,100	30,000	42	56,900	0	507,100	30,000	Scott Willison
NEW JERSEY																
Brick	66	B	2,760,965	2,460,533	18,691	131.64	250,311	Owned	50,121	65,000	100	0	0	2,760,965	0	James W. Hyres
Hillsborough	30	B	2,303,094	1,817,640	17,820	102.00	399,329	Owned	86,125	99,800	134	0	208,000	2,094,086	1,008	Robert W. Russell
NEW YORK																
Brooklyn	40	B	3,521,000	2,278,000	7,800	292.05	65,000	Owned	1,178,000	30,000	100	200,467	0	3,320,533	0	Perkins Geddes . . .
Clifton Springs[7]	2	M	n/a	n/a	6,500	n/a	61,884	n/a	n/a	n/a	50	0	0	0	n/a	Bern Associates
Lewiston	11	M	1,782,552	1,493,759	11,687	127.81	118,120	24,432	146,241	52,000	70	251,096	109,880	1,413,536	8,040	August S. Jubulis
NORTH CAROLINA																
Charlotte	100	B	5,218,036	2,058,216	24,400	84.35	248,885	2,600,000	310,935	90,000	137	0	0	2,618,036	2,600,000	Clark, Tribble . . .
Fayetteville	59	B	2,071,881	1,141,878	18,000	63.44	239,242	112,500	578,261	60,000	58	0	100,000	1,971,881	0	Walter Vick
Lowell	5	B	382,123	300,156	3,604	83.28	7,508	44,000	30,459	15,000	16	0	0	382,123	0	Beam & Yeargin
Thomasville	16	B	1,561,409	1,210,260	19,360	62.51	120,309	125,000	105,840	70,000	95	0	125,000	349,409	1,087,000	Newman & Jones
NORTH DAKOTA																
Harvey	5	M	406,641	316,728	5,000	63.35	5,708	18,000	66,205	23,000	18	124,500	300	121,624	160,127	Robert Anderson
OHIO																
Akron	35	B	1,566,192	1,184,886	11,950	99.15	171,306	100,000	110,000	50,000	62	0	0	1,566,192	0	T.C. Architects
Brecksville	24	B	2,594,198	1,526,000	15,600	97.82	321,600	Owned	746,598	73,000	100	0	0	2,594,198	0	van Dijk, Johnson
Columbus	23	B	1,460,000	729,000	7,500	97.20	144,900	475,000	111,100	36,000	49	0	0	1,460,000	0	Moody/Nolan
Columbus	20	B	1,185,000	678,500	7,500	90.47	149,058	250,000	107,442	36,000	49	0	0	1,185,000	0	Moody/Nolan
Gahanna	24	B	1,870,000	1,130,000	12,000	94.17	203,374	350,000	186,626	65,000	95	0	0	1,870,000	0	Design Group, Inc.
New Lexington	34	MS	1,382,766	1,036,356	11,994	86.41	186,632	87,000	72,778	70,000	60	385,396	0	987,370	10,000	Mark Denny
Ostrander	1	B	351,653	269,827	2,500	107.93	54,919	5,000	21,907	10,000	24	0	0	346,653	5,000	Alexander-Seckel
Toronto	15	B	597,723	510,586	5,000	102.12	44,085	Owned	43,052	18,000	35	185,989	0	405,234	6,500	Michael Tabeling
OKLAHOMA																
Konowa	2	M	206,191	153,191	5,243	29.22	45,500	Owned	7,500	20,000	75	0	0	0	206,555	Locke-Wright
Oklahoma City[8]	5	M	2,580,000	2,424,738	39,000	62.17	35,262	Owned	120,000	n/a	12	0	2,500,000	0	0	Robison Boeck
Owasso	14	B	625,555	383,325	5,800	66.09	48,735	164,880	28,615	25,000	30	0	0	625,555	0	Olsen-Coffey
Tulsa	36	B	1,091,415	698,205	9,800	71.25	108,135	196,050	89,025	35,000	33	0	0	1,051,415	40,000	Wallace & Bates
OREGON																
Dallas	12	M	786,644	516,258	10,540	49.40	69,990	n/a	200,396	39,000	54	90,428	0	690,916	5,300	Carl Sherwood
Florence	10	M	1,600,000	990,000	14,800	66.89	350,000	145,000	115,000	60,000	50	135,000	0	1,150,000	315,000	Richard P. Turi

Symbol Code: B—Branch Library; BS—Branch & System Headquarters; M—Main Library; MS—Main & System Headquarters; S—System Headquarters; n/a—not available

ARCHITECT: BINGHAM & WOODWARD

Ellsworth City Library, Me.

New Buildings (continued)

Community	Pop. in M	Code	Project Cost	Const. Cost	Gross Sq. Ft.	Sq. Ft. Cost	Equip. Cost	Site Cost	Other Costs	Volumes	Reader Seats	Federal Funds	State Funds	Local Funds	Gift Funds	Architect
PENNSYLVANIA																
Bradford	25	M	$2,026,255	$1,747,280	18,000	$97.07	$34,600	$110,000	$134,375	80,000	100	$400,000	$10,000	$35,000	$1,581,255	Robert K. Hendryx
Freedom	2	M	320,000	259,000	5,856	44.23	20,000	15,000	26,000	n/a	20	150,000	50,000	85,000	35,000	John Regney
Jefferson Boro	10	M	3,075,000	n/a	33,000	n/a	90,676	Owned	180,000	40,000	40	0	0	3,230,000	0	Don Gmitter
Johnstown	16	M	663,000	500,000	6,550	76.34	38,000	100,000	25,000	40,000	44	0	500,000	63,000	100,000	Milton Shaulis
Pittsburgh	11	M	949,000	800,000	14,021	57.06	112,000	Owned	37,000	60,000	65	0	0	837,000	112,000	Don Stanish
SOUTH CAROLINA																
Goose Creek	25	B	1,525,595	1,023,962	15,000	68.26	147,040	206,678	147,915	50,000	80	0	0	1,525,595	0	Vito Pascullis
Greenville	22	B	1,361,709	937,526	12,050	77.80	117,268	220,000	86,915	65,000	68	100,000	0	1,111,709	150,000	F. Earle Gaulden
Inman	12	B	663,204	453,146	7,765	58.36	97,000	40,000	73,058	55,000	53	75,000	0	438,204	150,000	C. Wayne Crocker
SOUTH DAKOTA																
Faith	1	M	187,141	159,872	2,880	55.51	13,000	Leased	14,269	18,000	80	83,541	0	75,581	28,019	Bill Thomas
TENNESSEE																
Erin	7	M	239,000	192,700	2,800	68.82	8,000	25,000	13,300	15,000	15	100,000	35,784	103,266	0	Rufus Johnson Assocs.
Gleason	2	M	50,000	40,000	1,440	27.78	10,000	Owned	0	8,700	26	0	0	0	50,000	none
Lake City	3	M	270,000	185,000	3,660	50.55	41,000	30,000	14,000	15,000	36	100,000	35,784	93,216	41,000	Barge, Waggoner . . .
Westmoreland	2	M	n/a	130,000	2,400	54.17	n/a	Owned	0	5,000	12	65,000	35,000	30,000	0	Gingles & Gingles
TEXAS																
Bridge City	81	M	82,963	54,517	2,500	21.81	3,446	25,000	0	12,000	12	0	0	56,908	26,055	none
Hawkins	5	M	306,208	227,061	5,300	42.84	52,100	8,000	19,047	17,000	47	100,000	0	125,000	81,208	Gohmert Assocs.
Kaufman	40	M	611,000	520,000	9,500	54.74	59,000	Owned	32,000	53,000	65	200,000	0	0	411,000	Joseph F. Gordon
Mason	4	M	410,750	328,968	5,550	59.27	51,920	Owned	29,862	20,000	24	100,000	0	0	310,750	Jack E. Meek
Sachse	5	M	333,152	269,000	5,000	53.80	12,352	8,100	43,700	16,000	21	100,000	0	128,100	105,052	Black & Veatch
Willis	14	B	224,957	135,853	6,000	22.64	20,284	62,220	6,600	30,000	n/a	100,000	0	70,307	54,650	Edward D. Campbell
UTAH																
Sandy	80	B	3,272,852	1,788,775	26,600	67.25	353,931	986,000	144,146	300,000	251	0	0	2,336,852	936,000	Scott, Louie . . .
VERMONT																
Proctorsville	1	M	225,000	191,000	2,176	87.78	0	Owned	34,000	12,000	25	0	67,500	0	157,500	Kasser; Cavendish
VIRGINIA																
Stuart	18	B	1,262,757	1,090,079	13,200	82.58	28,578	49,000	95,100	45,000	70	0	0	112,818	1,149,939	Williams, Tazewell
Washington	6	M	747,900	571,846	6,000	95.31	56,689	75,000	44,365	25,000	30	140,998	0	0	606,902	McClintock, Modiset
WASHINGTON																
Spokane	25	BS	1,883,295	1,347,284	18,000	74.85	170,625	221,215	144,171	40,000	84	0	0	1,863,295	20,000	Integrus Architecture
WEST VIRGINIA																
Huntington	15	MS	492,290	355,569	5,000	71.11	47,740	60,750	28,231	25,000	30	175,000	0	112,000	205,290	Jerry Goff
Petersburg	10	M	651,507	461,081	7,780	59.26	53,435	105,000	31,991	80,000	24	310,000	80,000	25,000	236,507	J.D. King
WISCONSIN																
Black Earth	1	M	238,441	132,574	2,560	51.79	26,000	50,000	29,867	13,700	24	0	0	216,441	22,000	K. Brink & Assocs.
Phillips	5	M	416,588	343,282	5,800	59.19	37,856	Owned	35,450	17,500	48	125,000	0	199,013	92,575	Devin Mogck
Stetsonville	1	M	317,275	249,065	3,990	62.42	36,534	14,865	16,811	18,000	32	0	0	0	317,275	Nelson & Jorgensen
Whitewater	17	M	1,972,306	1,311,016	15,872	82.60	218,571	234,654	207,865	75,000	72	0	0	1,095,093	877,213	HSR Assocs.

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ARCHITECT: MCDONALD, CASSELL & BASSETT. PHOTO: DALE E. LEAR, C.P.P.

Dr. Samuel L. Bossard Memorial Library, Gallipolis, Ohio

ARCHITECT: OSLER/MILLING; PHOTO: FRED GOLDEN.

Howell Carnegie District Lib., Mich.

Additions and Renovations

Community	Pop. in M	Code	Project Cost	Const. Cost	Gross Sq. Ft.	Sq.Ft. Cost	Equip. Cost	Site Cost	Other Costs	Volumes	Reader Seats	Federal Funds	State Funds	Local Funds	Gift Funds	Architect
ALABAMA																
Notasulga	1	B	$27,500	$13,513	1,890	$7.15	$1,500	$12,487	0	375	50	0	0	0	$27,500	Broach & Sons
ALASKA																
Skagway	1	M	211,938	n/a	1,288	n/a	n/a	Owned	n/a	20,000	30	0	190,745	21,193	0	Minch Ritter Forrest . . .
ARIZONA																
Scottsdale	40	B	343,582	200,610	2,000	100.30	114,205	Owned	28,767	75,000	250	0	0	343,582	0	Roberts/Dinsmore Assocs.
ARKANSAS																
Newport	21	M	476,200	427,800	9,000	47.53	14,000	Owned	34,400	72,000	53	134,227	0	77,000	264,973	Polk Stanley Saunders . . .
CALIFORNIA																
Beverly Hills	36	M	20,963,568	n/a	92,000	n/a	n/a	Owned	n/a	300,000	330	0	0	20,963,568	0	Moore/Martin & Assocs.
Los Angeles[9]	41	B	1,402,636	1,193,175	5,000	238.64	28,034	Owned	181,427	24,000	40	800,000	0	602,636	0	Martinez Hirsch Assocs.
Ramona	25	B	129,000	103,500	800	129.37	0	Owned	25,500	n/a	n/a	120,000	0	9,000	0	Alfredo Larin
Rancho Santa Fe	8	B	489,000	344,000	2,400	143.33	40,000	80,000	25,000	5,000	30	0	0	129,000	360,000	Howard Spector
COLORADO																
Louisville	15	M	929,262	189,381	9,100	20.81	89,000	620,881	30,000	30,000	60	79,000	5,000	845,262	0	Midgette/Seirroe & Assoc.
CONNECTICUT																
Greenwich	58	M	778,288	431,085	7,000	61.58	156,883	Owned	190,320	n/a	n/a	0	216,133	65,000	497,155	Richard Foster Assocs.
New Canaan[10]	19	M	992,760	874,355	8,000	109.29	0	Owned	118,405	32,400	48	0	315,000	0	677,760	SMS Architects PC
New Haven	130	MS	17,300,000	13,000,000	103,000	126.21	2,042,594	Owned	2,257,406	450,000	275	100,000	350,000	16,850,000	0	Hardy Holzman . . .
FLORIDA																
Bonita Springs	349	B	860,258	659,083	11,900	55.39	107,719	Owned	93,456	60,000	78	0	0	774,258	86,000	Gee & Jenson, Inc.
Largo	140	M	304,494	287,814	22,082	13.03	0	Owned	16,680	200,000	175	0	0	293,915	10,579	Theodore J. Williamson
Miami[11]	23	B	710,000	494,000	5,500	89.81	40,000	60,000	116,000	22,000	44	0	0	710,000	0	Jerome Filer
Miami Beach	75	B	150,000	100,000	25,000	4.00	50,000	Owned	0	100,000	70	0	0	150,000	0	none
Miami Beach	30	B	265,000	219,000	1,500	146.00	25,000	Owned	21,000	25,000	46	0	0	265,000	0	Filer & Hammond
Ormond Beach	45	B	1,853,100	1,342,800	31,000	43.31	414,000	Owned	96,300	150,000	150	200,000	200,000	1,268,100	185,000	Spillis, Candela & Partners
Sebring	18	MS	594,800	480,076	10,776	44.55	42,900	Owned	71,824	54,096	88	222,400	150,000	77,400	145,000	Stottler, Stagg & Assocs.
Yankeetown	5	B	70,259	61,450	1,500	40.96	4,416	Owned	4,393	8,000	30	0	0	0	70,259	Davies & Fleeger
GEORGIA																
Atlanta	15	B	538,595	385,428	6,835	56.39	99,221	Owned	53,946	36,000	32	0	0	538,595	0	Leo A. Daly
Dallas	45	B	665,541	512,495	13,000	39.42	106,392	Owned	46,654	61,500	187	0	550,476	115,065	0	Southern Engineering
Decatur	20	B	275,837	169,670	8,670	19.57	91,779	Owned	14,388	44,000	66	0	0	275,837	0	Leo A. Daly
IDAHO																
Twin Falls	28	M	2,748,882	2,251,440	41,000	54.91	100,888	265,436	131,118	165,000	215	256,089	0	2,322,290	170,503	Richardson Design . . .
ILLINOIS																
Ashland[12]	6	M	50,000	34,291	3,300	10.39	0	Owned	15,709	12,000	23	0	40,000	10,000	0	Graham, O'Shea & Hyde
Chester	8	M	765,456	688,353	5,208	132.17	21,959	Owned	55,144	45,000	100	200,000	0	565,456	0	McLaughlin & Assocs.
Chicago	86	B	500,000	330,000	1,500	220.00	36,000	Owned	134,000	80	12	0	500,000	0	0	Kendall Fleming
Dwight[13]	4	M	405,456	320,880	4,500	71.31	0	31,484	53,092	16,000	28	0	123,514	222,863	59,079	Kenyon & Assocs.
Lake Zurich	25	M	3,750,000	2,600,000	33,000	79.00	710,025	Owned	439,975	120,000	120	250,000	0	3,500,000	0	Hunter & Hammond . . .
Prospect Heights	12	M	3,150,000	2,551,204	26,000	98.12	287,973	20,000	290,823	85,000	110	250,000	0	2,900,000	0	Carow Architects
INDIANA																
Delphi	8	M	830,000	660,000	10,750	61.40	135,000	Owned	35,000	60,000	48	271,116	0	433,619	125,265	H.L. Mohler & Assocs.
Kokomo	81	M	771,000	491,000	54,878	8.95	154,365	Owned	125,635	250,000	180	200,000	0	571,000	0	Parke Randall
Muncie	119	B	321,656	199,089	11,000	18.09	79,324	Owned	43,243	70,210	87	0	0	321,656	0	Cooler Group
Oakland City	4	M	495,000	405,616	4,731	85.74	41,565	Owned	47,819	45,000	38	495,000	0	0	0	Key Construction Co.
South Whitley	3	M	135,500	112,000	2,800	40.00	10,500	Owned	13,000	5,270	20	0	0	10,500	125,000	Scearce & Assocs.

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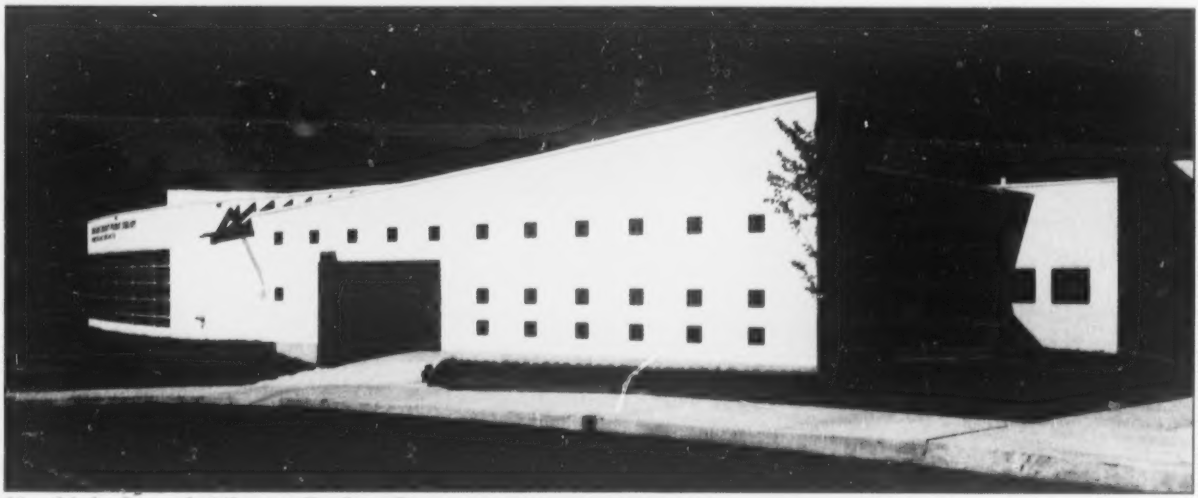

Northlake Branch Library, Tucker, Ga.

ARCHITECT: STEVENS & WILKINSON/R.L. BROWN

Additions and Renovations (continued)

Community	Pop. in M	Code	Project Cost	Cost Cost	Gross Sq. Ft.	Sq. Ft. Cost	Equip. Cost	Site Cost	Other Costs	Volumes	Reader Seats	Federal Funds	State Funds	Local Funds	Gift Funds	Architect
IOWA																
Colo[14]	1	M	$55,000	$27,500	2,400	$11.45	$25,000	Owned	$2,500	13,000	28	0	0	$7,000	$48,000	Charles Johnston . . .
Cresco[15]	3	M	625,997	497,997	7,800	63.85	60,000	18,000	50,000	35,000	60	150,000	0	275,997	200,000	Schute-Larson
Spirit Lake	5	M	375,000	95,000	9,000	10.55	80,000	200,000	0	25,000	60	0	0	200,000	175,000	none
Waukee	5	M	92,483	10,000	2,700	3.70	12,483	70,000	0	8,000	n/a	0	0	38,313	54,170	not reported
KANSAS																
Haysville	26	M	324,965	238,000	9,491	25.07	66,346	Owned	20,619	21,885	44	10,000	0	222,465	92,500	Joe W. Carmichael
Inman	2	M	166,000	137,000	3,570	38.37	7,000	Owned	22,000	15,400	19	40,000	0	90,000	36,000	Mike Decker . . .
South Haven	1	M	9,500	9,000	1,250	7.20	500	Owned	0	4,928	14	4,065	0	5,435	0	Dennis Johnson
LOUISIANA																
Breaux Bridge	6	B	200,600	171,262	5,537	30.93	10,251	Owned	19,087	40,000	52	100,000	0	99,600	1,000	Glenn Angelle
Duson[16]	1	B	24,213	16,663	1,600	10.41	7,550	Owned	0	5,000	17	0	0	24,213	0	none
MAINE																
Bucksport	7	M	194,860	179,381	1,120	160.16	837	Owned	14,642	18,000	15	93,160	0	49,894	51,806	WBRC Architects . . .
Ellsworth	8	M	1,075,000	849,300	12,840	66.14	88,000	Owned	137,700	28,000	97	75,000	0	1,000,000	0	Bingham & Woodward
Old Town[17]	13	M	1,260,000	961,200	10,300	93.32	140,000	Owned	158,800	54,000	30	0	0	90,000	1,170,000	Stephen B. Rich
MARYLAND																
New Carrollton	146	B	418,450	127,022	58,500	2.17	291,428	Owned	0	200,000	60	0	0	418,450	0	none
Towson	54	BS	4,176,123	3,372,356	37,000	91.14	410,000	Owned	393,767	n/a	39	0	4,176,123	0	0	Desman Assocs.
MASSACHUSETTS																
Marblehead	20	M	3,329,325	2,817,521	26,000	108.37	234,386	Owned	277,418	120,000	120	0	0	3,171,490	157,835	Architects Design II
North Attleboro	24	M	743,000	661,270	10,000	66.13	0	Owned	81,730	45,000	65	0	0	743,000	0	Stopfell Miller Inc.
Woburn	35	M	313,500	144,000	n/a	n/a	135,000	Owned	34,500	n/a	n/a	0	0	0	313,500	Berg/Howland Assocs.
MICHIGAN																
Howell	32	M	5,056,876	3,787,061	31,000	122.16	800,000	Owned	469,815	90,000	112	95,000	0	4,895,876	66,000	Osler/Milling Architects
MINNESOTA																
Blaine	40	M	2,594,070	1,943,539	38,000	51.15	351,104	Owned	299,247	400,000	207	0	0	2,594,070	0	Sirnay Architects
North Branch	9	B	188,666	0	4,312	0.00	63,666	125,000	0	10,000	36	0	0	188,666	0	none
MISSISSIPPI																
Yazoo City	27	M	139,818	71,020	3,459	20.64	44,537	Owned	24,261	18,500	33	65,000	0	55,106	19,712	Canaizaro Trigianai
MISSOURI																
St. Peters	50	B	689,524	585,867	22,440	26.11	32,000	60,418	11,239	110,000	136	0	0	689,524	0	Rataj Architects
NEW HAMPSHIRE																
Brentwood	2	M	70,000	69,500	750	93.33	0	Owned	500	16,000	12	0	0	0	70,000	Gilbert & Beard
New London	3	M	1,344,567	1,047,390	13,633	89.70	175,000	Owned	121,637	60,000	122	0	0	786,497	558,070	Ingram/Wallace
NEW YORK																
Fredonia	15	M	21,327	16,944	273	62.07	0	Owned	4,387	60,000	150	7,464	0	0	13,863	Habiterra Assocs.
Greenport	6	M	22,220	19,475	n/a	n/a	0	Owned	2,744	n/a	n/a	7,000	0	15,220	0	Ward Assocs.
Hamburg	53	M	85,689	78,088	701	111.39	748	Owned	6,853	50,000	91	67,817	0	17,872	0	Robert J. Sartini
Milton	1	M	204,794	188,684	3,924	48.08	16,110	Owned	n/a	12,000	20	44,356	10,000	28,758	121,680	Frank J. Taylor
New York	60	B	2,100,000	1,575,000	13,615	115.58	300,000	Owned	225,000	30,500	84	121,541	0	1,978,459	0	Samuel J. Desanato
North Bellmore	27	M	1,318,098	1,140,906	14,800	77.09	49,036	Owned	128,156	101,000	64	39,096	0	1,279,002	0	Roy McCutcheon
Staten Island	70	B	390,000	225,000	6,306	35.68	145,000	Leased	20,000	47,300	72	0	0	390,000	0	Margaret Fitzpatrick
NORTH CAROLINA																
Bakersville	7	M	115,700	68,200	2,400	28.42	7500	35,000	5,000	15,000	40	0	49,500	20,000	64,200	John P. Stevens
Bethel	2	B	187,000	169,000	2,700	62.59	14,000	Owned	4000	14,000	20	85,000	0	102,000	0	Hite Assocs.
Winterville	2	B	109,639	67,834	1,455	46.62	10,323	26,500	4,892	12,000	16	0	50,000	0	59,639	Hite Assocs.

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ARCHITECT: ROSS, SCHONDER, STERZINGER, CUPCHECK

Cranberry Public Library, Mars, Pa.

ARCHITECT: WALTER VICK

Cliffdale Branch, Fayetteville, N.C.

Additions and Renovations (continued)

Community	Pop. in M	Code	Project Cost	Cost Cost	Gross Sq. Ft.	Sq. Ft. Cost	Equip. Cost	Site Cost	Other Costs	Volumes	Reader Seats	Federal Funds	State Funds	Local Funds	Gift Funds	Architect
OHIO																
Columbus	31	B	$650,000	$440,650	6,000	$73.44	$114,350	$31,000	$64,000	36,000	47	0	0	$650,000	0	Spencer & Spencer, Inc.
Dublin	16	B	1,703,000	1,351,000	20,000	67.55	271,250	Owned	80,750	100,000	146	0	0	1,703,000	0	Myers/NBD, Inc.
Gallipolis	30	M	818,947	656,981	14,300	45.93	60,295	42,000	59,671	85,000	104	295,745	0	483,702	39,500	McDonald, Cassell . . .
Kingsville	5	M	168,682	141,535	2,151	65.80	24,923	Owned	2,224	50,000	50	0	0	44,664	124,018	Van Allen & Payne
Mentor	60	M	4,101,404	3,064,116	41,188	73.60	532,659	Owned	504,629	172,400	216	0	0	4,095,412	5,992	Beck & Tabeling
Oxford	18	B	1,093,586	782,361	15,368	50.90	239,037	Owned	72,188	35,000	88	0	0	1,076,336	17,250	Steed Hammond Paul
Toledo	463	B	2,529,628	1,848,171	21,125	87.48	215,798	235,693	229,966	72,800	232	0	2,529,628	0	0	Munger Munger
OKLAHOMA																
Andarko	7	M	604,016	404,268	11,000	36.75	66,423	97,500	35,825	50,000	100	125,000	20,000	125,000	334,016	Beck Assocs.
Harrah	5	B	152,287	88,394	1,800	49.11	4,624	52,000	7,269	10,000	15	0	0	95,287	57,000	Elliott & Assocs.
OREGON																
Salem	150	M	6,679,351	5,600,000	82,720	30.65	400,000	Owned	679,351	325,000	350	0	235,863	6,297,752	145,736	Settecase Smith Doss
PENNSYLVANIA																
Annville	12	M	359,390	313,877	3,980	78.86	24,721	Owned	20,792	35,000	40	0	0	113,653	245,737	Robert L. Beers
Elizabethville	10	B	355,000	295,000	6,000	49.16	34,500	Owned	25,500	25,000	32	0	35,000	0	320,000	Crabtree Rohrbaugh
Mars	15	M	752,374	291,300	11,000	26.48	110,424	328,150	22,500	55,000	88	200,000	0	441,950	110,424	Ross, Schonder . . .
Richland	4	M	400,000	270,000	5,000	54.00	40,000	Owned	90,000	30,000	30	0	10,000	14,000	376,000	Rich Walter
Spring City	8	M	45,956	38,464	660	58.28	6,722	Owned	770	2000	12	0	0	6,204	39,752	none
RHODE ISLAND																
Hope Valley	6	M	11,458	9,820	676	14.54	1,638	Owned	0	4600	15	0	0	11,458	0	not reported
Greenville	25	M	2,044,073	1,353,222	15,000	90.22	209,251	182,712	298,888	80,000	92	71,093	894,316	522,600	556,064	David Presbrey
Portsmouth	17	M	1,395,417	1,178,670	9,516	123.86	97,681	Owned	119,066	55,000	65	0	627,000	399,973	368,444	Donald Prout Assocs.
TENNESSEE																
Chattanooga	286	M	769,903	449,655	67,255	7.43	199,792	50,000	70,456	400,000	458	100,000	35,784	634,119	0	Derthick, Henley . . .
Paris	28	B	282,178	253,708	3,450	73.54	8,914	Owned	19,556	40,000	91	100,000	35,784	76,394	70,000	TLM Assocs., Inc.
TEXAS																
Austin[18]	24	B	136,000	60,000	5,000	12.00	25,000	35,000	16,000	33,000	40	0	0	15,000	121,000	John W. Gillum
Austin[19]	26	B	137,850	66,750	5,100	13.09	26,000	25,600	19,500	30,000	25	0	0	18,500	119,350	Robert James Riba
Beaumont	118	B	1,600,000	1,350,000	15,000	90	60,000	Owned	190,000	25,000	100	0	0	1,350,000	250,000	David Hoffman
Brenham	27	M	370,250	311,605	5,000	62.32	28,346	Owned	30,299	58,000	75	0	0	72,000	298,250	Hidell Architects
Freeport	13	B	728,000	579,000	9,100	63.63	101,000	Owned	48,000	40,000	58	0	0	728,000	0	Hamilton & Assocs.
Lake Jackson	25	B	994,501	747,533	21,000	35.60	169,837	Owned	77,131	85,000	128	0	0	994,501	0	Hall/Merriman
Weatherford	50	M	770,605	601,500	17,048	35.28	127,000	Owned	42,105	92,000	120	0	0	668,663	101,942	Jackson & Ayers, Inc.
UTAH																
American Fork	16	M	95,000	40,000	5,000	8.00	50,000	Owned	5000	25,000	30	47,000	0	47,000	5,000	Nelsen-Howden
VIRGINIA																
Fredericksburg	155	M	4,071,894	2,490,084	37,500	66.40	505,748	Owned	1,076,062	150,000	120	200,000	0	3,791,894	80,000	Lukemire Partnership
Kilmarnock	12	M	737,000	674,000	10,200	66.08	25,000	Owned	38,000	45,000	68	196,000	0	26,000	515,000	not reported
Salem	24	M	952,049	757,244	16,542	45.78	123,703	Owned	71,102	90,000	124	200,000	0	752,049	0	Glenn Reynolds
WASHINGTON																
Bellingham	75	S	845,000	724,000	15,000	48.27	63,000	Owned	58,000	30,000	20	0	0	845,000	0	Ernst Assocs.
Lynwood	29	B	798,224	654,772	14,400	45.47	73,604	Owned	69,848	76,000	82	0	0	798,224	0	Lewis-Nelson Assocs.
WISCONSIN																
Bangor	3	M	136,775	120,675	4,800	25.14	5600	10,500	0	n/a	18	0	0	62,500	92,155	La Crosse Investments
Brookfield	38	M	4,405,546	3,612,325	49,288	73.29	417,727	Owned	375,494	165,000	274	0	0	4,356,456	49,090	Engberg Anderson
Delavan	11	M	755,389	694,800	12,500	55.58	20,000	Owned	40,589	50,900	70	125,000	0	320,000	310,389	DePietro Design Assocs.
Kenosha	80	B	777,673	698,673	3,800	183.86	63,000	Owned	16,000	23,000	65	0	0	714,673	63,000	Herbst, Eppstein . . .
Racine	140	M	5,305,000	4,488,000	62,500	71.81	429,000	Owned	388,000	250,000	192	125,000	0	4,713,000	467,000	Carow Architects
WYOMING																
Sundance	3	M	472,921	256,979	5,733	44.82	2,441	196,651	16,850	30,000	36	166,550	90,000	15,267	201,104	Rundquist & Hard

Symbol Code: B—Branch Library; BS—Branch & System Headquarters; M—Main Library; MS—Main & System Headquarters; S—System Headquarters; n/a—not available

ARCHITECT: HERBST, EPPSTEIN, KELLER, CHADEK

Simmons Branch Library, Kenosha, Wis.

ARCHITECT: AMSLER WOODHOUSE MACLEAN.
PHOTO: NICK WHEELER

Wareham Free Library, Mass.

Six-Year Cost Summary

	Fiscal 1986	Fiscal 1987	Fiscal 1988	Fiscal 1989	Fiscal 1990	Fiscal 1991
Number of new bldgs.	71	101	101	111	127	120
Number of ARRs[1]	120	150	142	124	123	108
Sq. ft. new bldgs.	1,141,957	1,370,479	1,449,397	1,760,743	1,592,389	1,520,121
Sq. ft. ARRs	1,189,319	1,582,106	1,280,321	1,612,495	1,707,313	1,689,484
NEW BLDGS.						
Construction cost	$73,092,317	$101,016,870	$100,984,847	$160,937,343	$128,175,181	$121,884,749
Equipment cost	9,799,996	17,958,318	20,489,527	19,450,410	16,922,110	18,603,687
Site cost	4,211,461	5,047,659	10,403,705	14,191,713	13,147,809	14,504,740
Other costs	10,869,097	12,096,087	12,349,755	16,693,362	13,357,985	18,521,472
Total—Project cost	97,972,871	136,952,501	144,237,174	211,716,128	176,628,983	176,127,088
ARRs—Project cost	59,634,921	80,534,403	104,179,480	135,015,044	113,769,695	141,262,919
NEW & ARR PROJECT COST	$157,607,792	$217,486,904	$248,416,654	$346,731,172	$290,398,678	$317,390,007
FUND SOURCES						
Federal, new bldgs.	$6,367,559	$5,757,098	$7,352,110	$8,140,109	$10,593,149	$8,139,146
Federal, ARRs	4,753,052	4,677,400	7,321,967	8,264,044	6,984,747	6,533,719
Federal, total	$11,120,611	$10,434,498	$14,674,077	$16,404,153	$17,577,896	$14,672,865
State, new bldgs.	$1,863,277	$7,710,681	$13,849,248	$48,714,905	$29,450,257	$14,349,412
State, ARRs	7,054,676	5,310,877	6,922,165	6,997,782	7,315,892	11,439,866
State, total	$8,917,953	$13,021,558	$20,771,413	$55,712,687	$36,766,149	$25,789,278
Local, new bldgs.	$73,997,971	$117,135,870	$112,230,599	$137,650,121	$124,136,070	$138,176,957
Local, ARRs	42,971,936	64,050,359	79,197,138	108,753,024	84,323,211	111,788,933
Local, total	$116,969,907	$181,186,229	$191,427,737	$246,403,145	$208,459,281	$249,965,890
Gift, new bldgs.	$15,771,620	$7,182,656	$11,084,832	$17,428,326	$13,094,262	$15,810,151
Gift, ARRs	4,982,621	6,734,422	10,805,194	11,219,980	15,928,366	11,561,261
Gift, total	$20,754,241	$13,917,078	$21,890,026	$28,648,306	$29,022,628	$27,371,412
TOTAL FUNDS USED	$157,762,712	$218,559,363	$248,763,253	$347,168,291	$291,825,954	$317,799,445

[1] Additions, Remodelings, and Renovations

References

1. Located at entrance to Rocky Mountain National Park, windows offer view of mountainsides and cliffs.
2. Anchor of new strip shopping center, built on lease-purchase arrangement with mall developers.
3. Kiosk in suburban shopping mall.
4. Winner of Northern Illinois chapter, American Institute of Architects 1991 "Excellence in Architecture" award.
5. Town's first new library building.
6. Multipurpose building, shares space with Health Center.
7. Historic railroad depot converted to library; most of funds from anonymous benefactor.
8. Oklahoma Library for the Blind & Physically Handicapped.
9. Renovation and seismic reinforcement of a 1926 building of variegated brick, tile roof.
10. Synthesis of original 1913 building with three additions from the 1930s to late 1970s.
11. First library in the system to open with an online public access catalog.
12. Former bank building, donated to library.
13. Restoration of a historic building.
14. Remodeled fire station.
15. Remodeled 75-year-old Carnegie building.
16. Building previously used as fire department.
17. Restored 1904 Carnegie Foundation structure.
18. Owner paid for $120,000 of renovations.
19. Owner paid for $118,350 of renovations.

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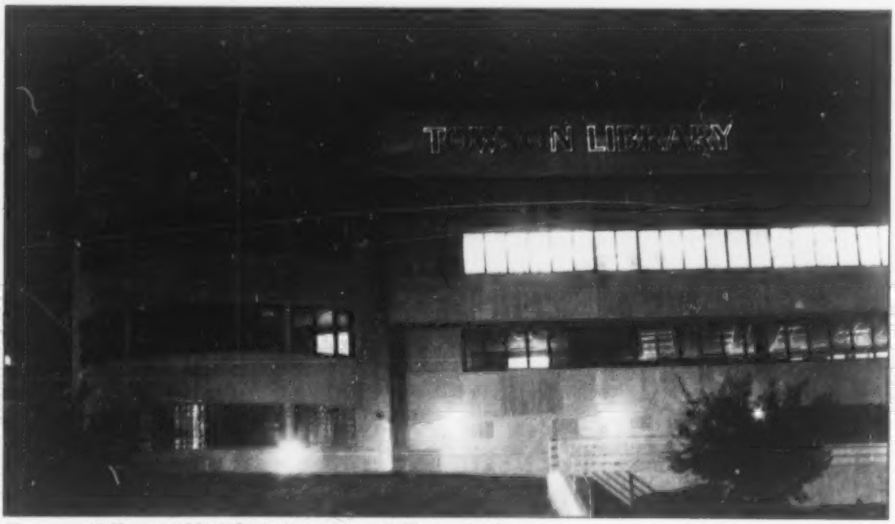

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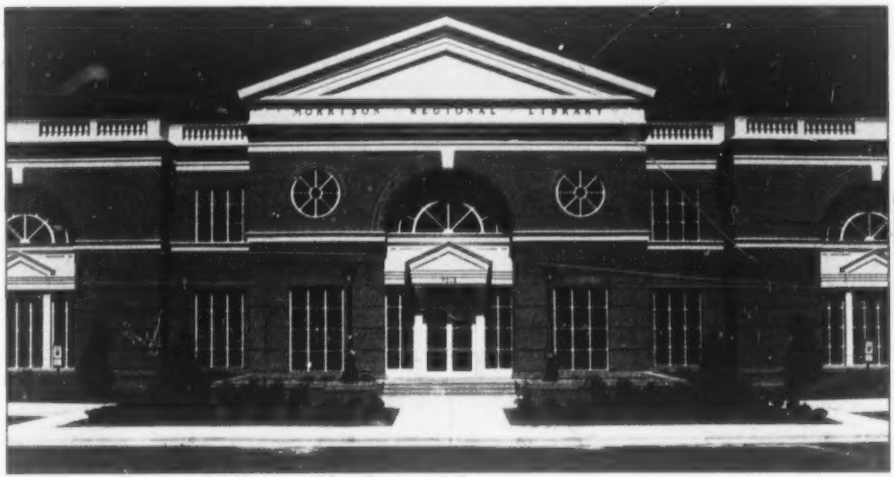

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ARCHITECT: SKD ARCHITECTS

Wildwood Branch Library, Mahtomedi, Minn.

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Wendt, Cedarholm, Tippens, 560 Greenbay Rd., Winnetka, IL 60093

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Williamson, Theodore J., Educated Design, 5001 W. Cypress St., Suite 100, Tampa, FL 33607

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ARCHITECT: JAMES W. HYRES. PHOTO: MELABEE M. MILLER

Brick Township Branch Library, N.J.

Still To Come

The number of buildings in progress (projects not yet completed by June 30, 1991) is growing once again. With 948 projects, we've almost matched the all-time high of 949 that we hit in 1989. This year's list contains 847 public buildings from 45 states and 101 academic buildings from 39 states, the District of Columbia, and Guam.

The list of individual projects submitted follows with the stage(s) of progress checked accordingly.

STAGES		
PREDESIGN	1	PRELIMINARY INVESTIGATION
	2	PROGRAM FILED
	3	PROJECT FUNDED
	4	ARCHITECT SELECTED
DESIGN	5	DESIGN STAGE IN PROGRESS
	6	CONSTRUCTION DOCUMENTS COMPLETED
	7	BIDDING COMPLETE
	8	CONTRACTS AWARDED

The date following the library name represents the estimated year of completion.

Academic Projects

NAME OF LIBRARY	STAGES							
	1	2	3	4	5	6	7	8
ALABAMA								
Univ. of Alabama Busn. Lib., Tuscaloosa [1994]	✓	✓	✓					
Univ. of Alabama Hoole Special Collections, Tuscaloosa [1993]	✓	✓	✓	✓	✓			
ARIZONA								
Northern Arizona Univ., Flagstaff [1992]	✓	✓	✓	✓	✓	✓	✓	✓
ARKANSAS								
Univ. of Arkansas, Fayetteville [1994]	✓		✓	✓	✓			
Arkansas State Univ., State University [1993]					✓	✓		
CALIFORNIA								
California State–Hayward, Concord [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Univ. of California, Davis [1992]	✓	✓	✓	✓	✓	✓		
Univ. of California–San Diego, La Jolla [1993]	✓	✓	✓	✓	✓	✓	✓	✓
Naval Postgraduate School, Monterey [1992]								✓
Pfau Lib., California State Univ., San Bernardino [1993]	✓	✓	✓	✓		✓		
City Coll. of San Francisco [1994]	✓	✓		✓	✓			
Cal. State Univ., San Marcos [1992]								✓
Stanford Univ. Lib. [1994]	✓	✓		✓	✓			
COLORADO								
Eng. Lib., Univ. of Colorado–Boulder [1992]	✓	✓	✓	✓	✓	✓	✓	✓
DISTRICT OF COLUMBIA								
Georgetown Univ. [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Georgetown Univ. [1995]	✓							
FLORIDA								
University of Florida, Gainesville [1993]		✓	✓					
Florida Internat. Univ. Athenaeum, Miami [1993]	✓	✓	✓	✓	✓			
Florida Internat. Univ. Lib. Ext., Miami [1994]	✓	✓	✓	✓	✓			
Polk Community Coll., Winter Haven [1991]	✓	✓	✓	✓	✓	✓	✓	✓
GEORGIA								
Piedmont Coll., Demorest [1992]								✓
IDAHO								
Boise State Univ. [1993]	✓	✓	✓	✓	✓			
North Idaho College, Coeur d'Alene [1991]	✓	✓	✓	✓	✓	✓	✓	✓
University of Idaho, Moscow [1993]		✓	✓	✓	✓	✓	✓	
INDIANA								
Anderson Univ. [1993]	✓	✓		✓				
Earlham Coll., Richmond [1993]								✓
IOWA								
Mount Mercy Coll., Cedar Rapids [1992]						✓	✓	✓
St. Ambrose Univ., Davenport [1995]	✓	✓		✓				
Grand View College, Des Moines [1993]	✓	✓	✓	✓	✓	✓		
KANSAS								
Washburn Univ., Topeka [1991]	✓	✓	✓	✓	✓	✓	✓	✓
KENTUCKY								
Berea College [1991]	✓	✓	✓	✓	✓	✓	✓	✓
No. Kentucky Univ., Highland Heights [1994]		✓	✓	✓	✓			
Eastern Kentucky Univ., Richmond [1994]	✓	✓	✓	✓	✓			
LOUISIANA								
Xavier Univ., New Orleans [1992]	✓	✓	✓	✓		✓	✓	✓
MAINE								
Univ. of Southern Maine, Portland [1993]	✓	✓	✓	✓	✓	✓		

NAME OF LIBRARY	STAGES 1	2	3	4	5	6	7	8
MARYLAND								
Univ. of Maryland–Baltimore Cty. [1994]	✓	✓	✓	✓	✓			
Western Maryland Coll., Westminster [1991]	✓	✓	✓	✓	✓	✓	✓	✓
MASSACHUSETTS								
Eastern Nazarene Coll., Wollaston [1991]	✓	✓	✓	✓	✓	✓	✓	✓
MICHIGAN								
Ferris State Univ., Big Rapids [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Cooley Law Lib., Lansing [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Olivet Coll. [1992]	✓	✓	✓	✓	✓	✓	✓	✓
MINNESOTA								
Univ. of Minnesota Archives Ctr., Minneapolis [1998]	✓							
Univ. of Minnesota Walter Lib., Minneapolis [1997]	✓							
Univ. of Minnesota Wilson Lib., Minneapolis [1992]				✓	✓			
MISSISSIPPI								
Univ. of Southern Mississippi, Hattiesburg [1994]	✓	✓	✓	✓	✓			
MISSOURI								
Southwest Baptist Univ., Bolivar [?]	✓	✓		✓	✓			
Hannibal LaGrange Coll. [?]	✓							
NEVADA								
Univ. of Nevada, Reno [1993]			✓	✓				✓
NEW HAMPSHIRE								
St. Anselm Coll., Manchester [1992]		✓	✓	✓	✓			
NEW JERSEY								
Caldwell Coll. [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Georgian Court Coll., Lakewood [1993]	✓	✓		✓	✓			
Seton Hall Univ., South Orange [1993]	✓	✓						
NEW MEXICO								
NM Inst. of Mining & Tech., Socorro [1991]	✓	✓	✓	✓	✓	✓	✓	✓
NEW YORK								
SUNY–Albany [1995]	✓	✓	✓	✓	✓			
Fordham Univ., Bronx [1994]	✓	✓	✓	✓	✓			
Polytechnic Univ., Brooklyn [1991]			✓	✓				✓
Queens Coll., Flushing [1991]								✓
Cornell University, Ithaca [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Nazareth Coll. of Rochester [1994]	✓	✓		✓				
Rochester Inst. of Technology [1991]	✓	✓	✓	✓	✓	✓	✓	✓
SUNY Health Science Ctr. at Syracuse [1995]					✓			
Pace Univ. Law Lib., White Plains [1991]	✓	✓	✓	✓	✓	✓	✓	✓
NORTH CAROLINA								
East Carolina Univ., Greenville [1993]	✓	✓	✓	✓	✓			
Wake Forest Univ., Winston Salem [1991]	✓	✓	✓	✓	✓	✓	✓	✓
NORTH DAKOTA								
Standing Rock Coll., Ft. Yates [1992]					✓	✓		
OHIO								
Design, Architecture, Art & Planning Lib., Univ. of Cincinnati [1994]	✓	✓	✓	✓	✓			

NAME OF LIBRARY	STAGES 1	2	3	4	5	6	7	8
Coll. of Law, Ohio State, Columbus [1992]								✓
Miami Univ., Oxford [1993]	✓	✓	✓	✓	✓			
College of Wooster [1993]	✓	✓						
OKLAHOMA								
Oklahoma State Univ., Stillwater [?]	✓							
OREGON								
Northwest Christian Coll., Eugene [1995]	✓							
Oregon Health Sciences Univ., Portland [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Willamette Coll. of Law, Salem [1992]	✓	✓	✓	✓	✓	✓	✓	✓
PENNSYLVANIA								
Moravian Coll., Bethlehem [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Bloomsburg Univ. of Pennsylvania [?]	✓	✓						
Univ. of Pittsburgh at Greensburg [1993]	✓	✓	✓	✓	✓			
Immaculata Coll. [1993]	✓	✓	✓	✓	✓	✓		
Mansfield Univ. [?]	✓	✓	✓	✓	✓	✓		
Mansfield Univ. [1994]	✓	✓	✓	✓	✓	✓		
Philadelphia Coll. of Textiles & Science [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Pennsylvania State, Schuylkill Haven [1993]	✓	✓	✓	✓	✓	✓		
University of Scranton [1992]	✓	✓	✓	✓	✓	✓	✓	✓
RHODE ISLAND								
Univ. of Rhode Island, Kingston [1992]	✓	✓	✓	✓	✓	✓	✓	✓
SOUTH DAKOTA								
Univ. of South Dakota, Vermillion [1994]			✓	✓	✓			
TEXAS								
Univ. of Texas at Austin [1992]	✓	✓	✓	✓	✓			
Southern Methodist Univ., Dallas [1994]			✓					
South Texas Coll. of Law, Houston [1991]	✓	✓	✓	✓	✓	✓	✓	✓
VERMONT								
Middlebury College [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Norwich Univ., Northfield [1992]	✓	✓	✓	✓	✓	✓	✓	✓
VIRGINIA								
Washington & Lee Univ., Lexington [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Christopher Newport Coll., Newport News [?]						✓		
Shenandoah Univ., Winchester [1992]	✓	✓	✓	✓	✓	✓	✓	✓
WASHINGTON								
Music Lib., W. Washington Univ., Bellingham [1991]					✓	✓	✓	✓
Washington State Univ., Pullman [?]	✓	✓	✓	✓		✓		
Seattle Pacific Univ. [1993]	✓	✓		✓	✓			
Ctr. for Info. & Tech., Gonzaga Univ., Spokane [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Crosby Lib., Gonzaga Univ., Spokane [1992]								✓
Whitworth College, Spokane [1993]	✓	✓	✓	✓		✓	✓	✓
WEST VIRGINIA								
Davis & Elkins College, Elkins [1992]								✓
WISCONSIN								
Univ. of Wisconsin–Eau Claire [1993]	✓	✓	✓	✓	✓			
GUAM								
University of Guam, Margilao [1992]	✓	✓	✓	✓	✓	✓	✓	✓

Public Library Projects

NAME OF LIBRARY	STAGES 1	2	3	4	5	6	7	8
ALABAMA								
Washington Cty. PL, Chatom [1991]								✓
Elba PL [1992]			✓	✓	✓			
Enterprise PL [1993]	✓		✓	✓	✓			
Greene Cty. PL, Eutaw [1993]	✓	✓	✓					
Greenville-Butler Cty. PL [1992]	✓	✓	✓	✓		✓	✓	
Guntersville PL [1992]	✓	✓	✓	✓	✓			
Mobile PL [1992]	✓	✓	✓	✓	✓	✓	✓	

NAME OF LIBRARY	STAGES 1	2	3	4	5	6	7	8
Prichard PL [1991]				✓	✓			
Rainbow City PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Rainsville PL [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Annie L. Awbrey PL, Roanoke [?]	✓							
ARIZONA								
Chandler PL [1994]	✓	✓	✓	✓	✓	✓		
Velma Teague Branch Lib., Glendale [1991]	✓	✓	✓					✓
Mohave Cty. Lib., Kingman [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Peoria PL [1993]				✓				✓

NAME OF LIBRARY	STAGES							
	1	2	3	4	5	6	7	8
Ironwood Branch Lib., Phoenix [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Phoenix Central Lib. [1994]	✓	✓	✓	✓	✓			
Prescott PL [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Scottsdale Civic Ctr. Lib. [1993]	✓	✓	✓	✓	✓			
Sedona PL [1993]	✓	✓		✓	✓	✓		
ARKANSAS								
Fayetteville PL [1992]								✓
Perry Cty. Lib., Little Rock [1992]	✓	✓	✓	✓	✓			
Polk Cty. Lib., Mena [1992]					✓			
Stone Cty. Lib., Mountain View [1992]	✓	✓	✓	✓	✓	✓		
Perry Cty. Lib., Perryville [1992]	✓	✓	✓	✓	✓			
CALIFORNIA								
Alameda Free Lib. [1994]	✓	✓		✓	✓			
Albany Branch Lib. [1992]	✓	✓	✓	✓	✓			
Arvin Branch Lib. [1994]	✓	✓						
Baker Branch Lib., Bakersfield [1991]						✓	✓	✓
Benicia PL [1993]	✓	✓	✓	✓	✓	✓		
Platt Branch, Canoga Park [1993]	✓	✓	✓	✓	✓			
Carlsbad City Lib. [1992]	✓	✓	✓	✓	✓	✓		
Cathedral City Lib. [1993]	✓	✓		✓	✓			
Chowchilla Branch Lib. [1993]	✓	✓						
Chula Vista PL [1994]	✓	✓	✓		✓			
Coachella Lib. [1993]	✓	✓		✓	✓			
Yolo Cty. Lib., Davis [1993]	✓	✓	✓	✓	✓			
Del Mar Branch Lib. [?]	✓	✓		✓	✓			
Descanso Branch Lib. [1992]	✓		✓	✓	✓			
Escalon Lib. [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Humboldt Cty. Main Lib., Eureka [1994]	✓	✓	✓	✓	✓			
Fountain Valley Branch Lib. [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Frazier Park Branch Lib. [1994]	✓							
Granite Bay Branch Lib. [1994]	✓	✓						
Greenfield Community Lib. [1993]		✓		✓	✓			
Hacienda Heights PL [1993]	✓	✓		✓				
Humboldt Cty. Lib. [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Huntington Beach PL [1993]	✓	✓	✓	✓	✓	✓		
La Quinta Lib. [1993]	✓	✓		✓	✓			
Lakeside Lib. [1993]	✓	✓		✓	✓	✓		
Lancaster PL [1994]	✓	✓		✓	✓	✓		
Lawndale PL [1993]	✓	✓		✓	✓			
Livermore PL [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Los Altos Lib. [1992]	✓	✓	✓	✓	✓	✓	✓	
Angeles Mesa Branch, Los Angeles [1994]	✓	✓	✓	✓				
Brentwood Branch, Los Angeles [1993]	✓	✓	✓	✓	✓			
Cahuenga Branch, Los Angeles [1995]	✓	✓	✓	✓	✓			
Felipe de Neve Branch, Los Angeles [1995]	✓	✓	✓	✓				
John C. Fremont Branch Lib., Los Angeles [1995]	✓		✓	✓				
Lincoln Heights Branch, Los Angeles [1994]	✓	✓	✓	✓	✓			
Malabar Branch, Los Angeles [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Memorial Branch, Los Angeles [1994]	✓	✓	✓					
John Muir Branch, Los Angeles [1994]	✓	✓	✓	✓	✓			
Robertson Branch, Los Angeles [1995]	✓		✓	✓				
Venice Branch Lib., Los Angeles [1993]	✓	✓	✓	✓	✓	✓		
Vermont Square Branch, Los Angeles [1994]	✓	✓	✓	✓	✓			
Watts Branch, Los Angeles [1995]	✓	✓	✓	✓				
Wilshire Branch, Los Angeles [1994]	✓	✓	✓	✓	✓			
Los Gatos PL [?]	✓	✓						
McFarland Branch Lib. [1994]	✓	✓						
Marina Del Rey PL [?]	✓	✓		✓				
Menlo Park Lib. [1992]								✓
Hanshaw Branch Lib., Modesto [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Nevada Cty. Lib., Nevada City [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Newport Beach PL [1993]	✓	✓	✓	✓	✓			
Mid Valley Regional Branch, Northridge [1993]	✓	✓	✓	✓	✓			
Porter Ranch Branch, Northridge [1994]	✓	✓	✓	✓				

NAME OF LIBRARY	STAGES							
	1	2	3	4	5	6	7	8
Oakhurst Branch Lib. [1992]	✓	✓	✓	✓	✓			
Asian Branch Lib., Oakland [1992]	✓	✓	✓	✓	✓	✓		
Brookfield Village Branch, Oakland [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Oxnard PL [1991]	✓	✓	✓	✓				✓
Pacific Grove PL [1994]	✓			✓	✓			
Palm Desert Lib. [1993]	✓	✓	✓	✓	✓			
Palos Verdes Lib. [1994]	✓	✓	✓	✓	✓			
Paso Robles PL [1993]	✓	✓		✓	✓			
Perris Lib. [1993]	✓	✓	✓	✓	✓			
El Dorado Cty. Lib., Placerville [1993]	✓	✓	✓	✓	✓			
Danville Branch, Pleasant Hill [1993]	✓	✓	✓	✓	✓			
Poway Branch Lib. [1993]	✓	✓	✓	✓				
Plumas Cty. Lib., Quincy [1992]	✓	✓	✓	✓	✓			
Redondo Beach PL [1994]	✓	✓	✓	✓	✓			
Ripon Lib. [1993]	✓	✓						
Rosamond Branch Lib. [1994]	✓							
Arden Lib., Sacramento [1998]	✓							
Carmichael Lib., Sacramento [1995]	✓							
Central Lib., Sacramento [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Cooledge Lib., Sacramento [1992]	✓	✓		✓	✓			
Elk Grove Lib., Sacramento [1993]	✓			✓	✓			
Folsom Lib., Sacramento [2000]	✓							
Franklin-Laguna Lib., Sacramento [2000]	✓							
McKinley Lib., Sacramento [1996]	✓							
N. Highlands/Antelope Lib., Sacramento [1993]	✓							
North Natomas Lib., Sacramento [2010]	✓							
N. Sacramento/Hagginwood Lib., Sacramento [2005]	✓							
Sacramento PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
State Lib. & Courts Bldg. Lib., Sacramento [1993]	✓	✓	✓	✓	✓			
South Natomas Lib., Sacramento [1995]	✓							
Valley-Hi Lib., Sacramento [2000]	✓							
Calaveras Cty. Lib., San Andreas [1994]	✓	✓			✓			
Carmel Valley Lib., San Diego [1992]	✓	✓	✓	✓	✓	✓		
Earl & Birdie Taylor Lib., San Diego [?]	✓	✓		✓	✓			
Mira Mesa Lib., San Diego [1993]	✓	✓	✓	✓	✓			
Point Loma Lib., San Diego [?]	✓	✓		✓				
Rancho Bernardo Lib., San Diego [?]	✓	✓						
Rancho Penasquitos Lib., San Diego [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Rancho San Diego Branch Lib. [?]	✓	✓	✓	✓	✓	✓		
Scripps Ranch Lib., San Diego [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Valencia Park Lib., San Diego [?]	✓	✓		✓				
Chinatown Branch Lib., San Francisco [1993]	✓	✓	✓	✓	✓			
Park Branch Lib., San Francisco [1991]	✓	✓	✓	✓		✓	✓	✓
Presidio Branch Lib., San Francisco [1991]	✓	✓	✓	✓		✓	✓	✓
San Francisco PL [1995]	✓	✓	✓	✓	✓			
Sunset Branch Lib., San Francisco [1992]	✓	✓	✓	✓	✓	✓		
San Marcos Branch [1992]	✓	✓	✓	✓	✓			
Sonoma Cty. Lib., Santa Rosa [1993]					✓			
Bear Mtn. Lib., Squaw Valley [1993]	✓	✓						
Northwest Lib., Stockton [1994]	✓	✓						
Southeast Lib., Stockton [1993]	✓	✓	✓					
Suisun City Lib. [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Temecula Library [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Sunland-Tujunga Branch, Tujunga [1994]	✓	✓	✓	✓	✓			
Vacaville PL [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Vista Lib. [?]	✓	✓			✓			
Yolo Cty. Lib., Woodland [1991]	✓	✓	✓	✓	✓			
Yorba Linda PL [1992]								✓
COLORADO								
Denver PL [1992–4]	✓	✓	✓	✓	✓			
Denver PL [1992–4]	✓	✓	✓	✓	✓			
Denver PL [1992–4]	✓	✓	✓	✓	✓			

NAME OF LIBRARY	STAGES 1	2	3	4	5	6	7	8
Denver PL [1992-4]	✓	✓	✓	✓	✓			
Denver PL [1992-4]	✓	✓	✓	✓	✓			
Denver PL [1992-4]	✓	✓	✓	✓	✓			
Denver PL [1992-4]	✓	✓	✓	✓	✓			
Denver PL [1992-4]	✓	✓	✓	✓	✓			
Denver PL [1992-4]	✓	✓	✓	✓	✓			
Denver PL [1992-4]	✓	✓	✓					
Denver PL [1992-4]	✓	✓	✓					
Denver PL [1992-4]	✓	✓	✓					
Denver PL [1992-4]	✓	✓	✓					
Denver PL [1992-4]	✓	✓	✓					
Denver PL [1992-4]	✓	✓	✓					
Denver PL [1992-4]	✓	✓	✓					
Denver PL [1992-4]	✓	✓	✓					
Denver PL [1992-4]	✓	✓	✓					
Denver PL [1992-4]	✓	✓	✓					
Denver PL [1995]	✓	✓	✓	✓	✓			
Fowler PL [1993]	✓							
Apraphoe Main Lib., Littleton [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Longmont PL [1993]	✓	✓		✓	✓			
CONNECTICUT								
Bridgeport PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Bridgeport PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Bridgeport PL [1993]			✓	✓	✓			
Bridgeport PL Community Ctr. [1993]	✓	✓	✓	✓	✓			
Burlington PL [?]	✓	✓		✓				
Chesire PL [1994]	✓	✓						
Derby PL [1993]		✓		✓	✓			
Hall Memorial Lib., Ellington [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Fairfield Woods Branch Lib. [1991]	✓	✓	✓	✓		✓	✓	✓
Greenwich Lib. [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Manchester PL [1992]	✓	✓	✓	✓	✓			
Mystic & Noank Lib. [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Wheeler Lib., North Stonington [?]	✓	✓	✓	✓	✓			
Minor Memorial Lib., Roxbury [1993]				✓	✓			
Seymour PL [?]	✓	✓			✓	✓		
Ridgefield Lib. & Historical Assn. [1992]	✓	✓		✓	✓	✓		
Fairchild-Nichols Memorial Lib., Trumbull [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Gunn Memorial Lib., Washington [1993]	✓	✓		✓	✓			
Silas Bronson Lib., Waterbury [1998]	✓							
Weston PL [1991]	✓	✓	✓	✓	✓	✓		
DELAWARE								
South Coastal Lib., Bethany Beach [1992]	✓	✓		✓	✓			
Bridgeville PL [1991]			✓					✓
FLORIDA								
Bartow PL [?]	✓							
Hernando Cty. PL System, Brooksville [1992]	✓	✓	✓	✓	✓			
Cocoa Beach PL [1991]					✓	✓	✓	✓
North Regional Lib., Coconut Creek [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Hugh Embry Lib., Dade City [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Deerfield Beach Branch [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Dunnellon Branch Lib. [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Eustis Memorial Lib. [1991]		✓	✓	✓	✓	✓		
Zora Neale Hurston Branch, Fort Pierce [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Northwest Branch Lib., Gainesville [1992]	✓	✓	✓	✓		✓	✓	✓
Southwest Branch Lib., Gainesville [1992]	✓	✓	✓	✓		✓	✓	✓
South Holiday Branch Lib., Holiday [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Columbia Cty. PL, Lake City [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Lake Wales PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Land O'Lakes Branch Lib. [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Mary Esther PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Eau Gallie PL, Melbourne [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Micanopy Branch Lib. [1991]	✓		✓			✓	✓	✓
Mount Dora PL [1993]	✓	✓		✓	✓			
Collier Cty. PL, Naples [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Golden Gate Branch Lib., Naples [1992]	✓		✓	✓	✓			
North Fort Myers Branch Lib. [1993]	✓	✓	✓	✓	✓			
DeGroodt Memorial Lib., Palm Bay [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Palm City Lib. [1993]		✓		✓	✓			
Pembroke Pines Branch Lib. [1994]	✓							
Northwest Branch, Ponte Vedra Beach [1992]	✓	✓	✓	✓	✓	✓		
Morningside Branch Lib., Port St. Lucie [1992]	✓	✓	✓	✓	✓	✓	✓	
Satellite Beach PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Seminole Lib. [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Sunrise Branch Lib. [1993]	✓	✓	✓	✓	✓	✓		
Tampa-Hillsborough Cty. PL System [1993]	✓	✓	✓	✓	✓			
Anthony Branch, West Palm Beach [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Central Lib., West Palm Beach [1994]	✓	✓	✓					
Greenacres Branch Lib., West Palm Beach [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Jupiter Branch Lib., West Palm Beach [1991]	✓	✓	✓	✓	✓	✓	✓	✓
North Cty. Branch Lib. [1993]	✓	✓	✓	✓	✓			
Okeechokee Blvd. Branch, W. Palm Beach [1992]	✓	✓	✓	✓	✓	✓		
Palm Beach Gardens Reg., W. Palm Beach [1993]	✓	✓	✓	✓	✓			
SW Cty. Regional, West Palm Beach [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Wellington Branch Lib., West Palm Beach [?]	✓	✓	✓	✓				
W. Atlantic Ave. Branch, W. Palm Beach [1994]	✓	✓	✓					
W. Boynton Beach Branch, W. Palm Beach [1993]	✓	✓	✓	✓	✓			
New River Branch Lib., Zephyrhills [1991]	✓	✓	✓	✓	✓	✓	✓	✓
GEORGIA								
Athens Regional Lib. [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Dougherty Cty. PL, Albany [1992]	✓	✓	✓	✓	✓			
Auburn Avenue Lib., Atlanta [1993]	✓	✓	✓	✓	✓	✓	✓	
Central Library, Atlanta [1992]	✓	✓	✓	✓				
Cleveland Avenue Lib., Atlanta [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Dogwood Lib., Atlanta [1992]	✓	✓	✓	✓	✓	✓	✓	✓
West End Library, Atlanta [1992]	✓	✓	✓	✓	✓	✓		
West Hunter Library, Atlanta [1992]	✓	✓	✓	✓	✓	✓	✓	✓
SW Georgia Regional Lib., Bainbridge [1994]	✓	✓	✓	✓	✓			
Butler PL [1993]		✓						
Neva Lomason Memorial Lib., Carrollton [1993]	✓	✓	✓	✓	✓			
Adairsville Lib., Cartersville [1993]	✓	✓						
Chickamauga PL [1992]	✓	✓	✓	✓	✓			
South Fulton Lib., College Park [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Forsyth Cty. Lib., Cumming [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Decatur Lib. [1992]	✓	✓	✓	✓		✓	✓	✓
Greenville PL [1993]		✓						
Harris County PL, Hamilton [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Banks County PL, Homer [1992]	✓	✓	✓	✓	✓	✓		
Jefferson PL [1992]	✓	✓	✓	✓	✓	✓		
Cherokee Regional Lib., LaFayette [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Lee Cty. Lib., Leesburg [1994]	✓	✓	✓	✓				
Lithonia Lib. [1992]	✓	✓	✓	✓	✓	✓	✓	
Louisville PL [1993]	✓	✓	✓	✓	✓			
Maysville PL [1992]	✓	✓	✓	✓	✓	✓		
Jenkins Cty. Memorial Lib., Millen [1993]	✓	✓	✓	✓	✓			
Morrow Branch Lib. [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Brooks Cty. PL, Quitman [1993]	✓	✓	✓	✓				
Reynolds PL [1993]		✓						
Echols Cty. Lib., Statenville [1992]	✓	✓	✓	✓	✓	✓		
Thomas Cty. PL System, Thomasville [1992]	✓	✓	✓	✓	✓			
Trion PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
McMullen Memorial Lib., Valdosta [1992]	✓	✓	✓	✓	✓	✓	✓	✓

NAME OF LIBRARY	STAGES							
	1	2	3	4	5	6	7	8
South Georgia Regional Lib., Valdosta [1993]	✓	✓	✓	✓	✓			
Villa Rica PL [1991]	✓	✓	✓	✓		✓	✓	✓
Bedingfield-Pritchard PL, Wadley [1992]	✓	✓	✓	✓	✓	✓	✓	✓
McCollum PL, Wrens [1992]	✓	✓	✓	✓	✓	✓	✓	✓
IDAHO								
Buhl PL [1993]		✓		✓	✓			
Kootenai Cty. Libs., Hayden [1992]	✓	✓	✓	✓	✓			
Mullan PL [1992]		✓	✓	✓	✓			
ILLINOIS								
Addison PL [1993]	✓	✓	✓	✓	✓	✓		
Arthur PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Astoria PL District [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Aurora PL [1992]	✓	✓	✓	✓	✓	✓		
Barrington PL District [1993]			✓	✓		✓	✓	✓
Berwyn PL [1994]	✓	✓		✓				
Breese PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Cambridge PL District [1993]	✓	✓	✓	✓	✓			
Auburn/Hamilton Park Branch, Chicago [1993]	✓	✓	✓	✓	✓			
Clearing Branch Lib., Chicago [1993]	✓	✓	✓	✓	✓			
Hegewisch Branch, Chicago [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Legler Branch Library, Chicago [1992]	✓	✓	✓	✓	✓	✓	✓	
McKinley Park Branch Lib., Chicago [1993]	✓	✓	✓	✓	✓			
Near West Side Branch Lib., Chicago [1993]	✓	✓	✓	✓	✓			
North Austin Branch Lib., Chicago [1993]	✓	✓	✓	✓	✓			
N. Pulaski/Humboldt Park Lib., Chicago [1993]	✓	✓	✓	✓	✓			
Pullman Branch Lib., Chicago [1993]	✓	✓	✓	✓	✓			
South Chicago Branch Lib. [1993]	✓	✓	✓	✓	✓			
Uptown Branch Library, Chicago [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Walker Branch Lib., Chicago [1993]	✓	✓	✓	✓	✓			
Woodlawn/Washington Pk., Chicago [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Coal City PL District [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Eldorado Memorial PL District [1991]								✓
Evanston PL [1995]		✓	✓	✓	✓			
Flora PL [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Jacksonville PL [?]	✓			✓	✓			
Joliet PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Midlothian PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Morris Area PL [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Naperville PL [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Palatin PL [1993]	✓	✓	✓	✓	✓	✓		
Green Hills PL District, Palos Hills [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Paris Carnegie PL [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Park Frost PL [1991]						✓		
Paxton Carnegie Lib. [1991]								✓
Plainfield PL District [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Vernon Area PL District, Prairie View [1993]	✓	✓	✓	✓	✓			
Quincy PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Schaumburg Twp. District Lib. [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Westmont PL [1991]			✓	✓		✓	✓	✓
INDIANA								
Austin Lib. [1991]						✓	✓	✓
Bloomfield-Eastern Greene Cty. PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Bluffton-Wells Cty. PL [1991]		✓	✓	✓		✓	✓	✓
Bremen PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Lincoln Heritage PL, Dale [1991]	✓	✓	✓	✓	✓	✓	✓	✓
DeMotte Branch Lib. [1993]	✓	✓	✓	✓		✓	✓	✓
Crawford Cty. Lib., English [?]	✓							
Evansville-Vanderburgh Cty. PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Frankfort Community PL [1992]			✓		✓			
W.E.B. DuBois Branch Lib., Gary [1992]	✓	✓	✓	✓	✓			
Gary PL [1992]	✓	✓	✓	✓	✓			
Ora L. Wildermuth Branch Lib., Gary [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Greensburg PL [1993]	✓			✓	✓			
Greenwood PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓

NAME OF LIBRARY	STAGES							
	1	2	3	4	5	6	7	8
Library Svcs. Ctr., Indianapolis [1992]	✓	✓	✓	✓	✓			
Jeffersonville Twp. PL [1992]	✓	✓	✓	✓	✓			
Lebanon PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Lowell PL [1993]	✓	✓	✓	✓	✓			
Marion PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Monticello-Union Twp. PL [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Montpelier-Harrison Twp. PL [1991]								✓
Noblesville-Southeastern PL [1993]	✓			✓				
Pendleton Community Lib. [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Pike Cty. PL, Petersburg [?]	✓							
Jasper Cty. PL, Rensselaer [1992]	✓	✓	✓	✓		✓	✓	✓
Rockville PL [1991]	✓		✓	✓		✓	✓	✓
St. Joseph Cty. PL [1991]								✓
Crothersville Branch, Seymour [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Jackson Cty. PL, Seymour [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Medora Branch, Seymour [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Shelbyville-Shelby Cty. PL [1996]	✓			✓				
Speedway PL [1991]	✓	✓	✓	✓		✓	✓	✓
Syracuse-Turkey Creek Twp. PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Switzerland Cty. PL, Vevay [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Warsaw Community PL [1993]	✓			✓	✓			
IOWA								
Audubon PL [?]	✓	✓	✓	✓	✓			
Bettendorf PL & Info. Ctr. [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Ericson PL, Boone [1993]								✓
Fairfield PL [?]	✓	✓		✓	✓			
Free PL, Chariton [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Chelsea PL [1992]	✓							
Clermont PL [?]	✓				✓			
Correctionville PL [1991]								✓
Decorah PL [1995]				✓	✓			
Edgewood PL [1992]	✓	✓	✓	✓	✓	✓		
Fairfax PL [1991]								✓
Guthrie Ctr. PL [?]	✓			✓				
Wilson Memorial Lib., Keota [1992]				✓	✓			
Little Rock PL [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Maquoketa PL [1994]	✓			✓	✓			
Newton PL [1992]	✓	✓	✓	✓		✓	✓	✓
Estherville PL [?]	✓							
Field-Carnegie Lib., Odebolt [?]	✓			✓	✓			
Oskaloosa PL [?]	✓							
Perry PL [?]	✓			✓				
Reinbeck PL [1991]				✓				✓
Urbandale PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Vinton PL [?]				✓	✓			
Kendall Young Lib., Webster City [1994]	✓	✓		✓	✓			
KANSAS								
Burlington Branch [1994]	✓	✓		✓	✓			
Chanuk PL [1992]	✓	✓	✓	✓		✓	✓	✓
Haven PL [1992]	✓	✓	✓	✓	✓	✓		
Hesston PL [1992]	✓	✓	✓	✓	✓	✓		
Morrill PL, Hiawatha [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Lebo Branch [1992]	✓	✓	✓	✓		✓	✓	✓
LeRoy Branch [1992]	✓	✓	✓	✓	✓			
Lindsborg Community Lib. [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Johnson Cty. Lib., Shawnee Mission [1996]	✓	✓		✓				
Lackman Lib., Shawnee Mission [1995]	✓							
Leawood Pioneer Lib., Shawnee Mission [1992]	✓	✓	✓					
Shawnee Lib., Shawnee Mission [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Wallsville City Lib. [1992]					✓			
KENTUCKY								
Eagle Creek Branch, Lexington [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Lexington PL [1992]								✓
Casey Cty. PL, Liberty [1991]	✓	✓	✓	✓	✓	✓	✓	✓

NAME OF LIBRARY	STAGES							
	1	2	3	4	5	6	7	8
LOUISIANA								
Bell City Branch [1992]	✓	✓	✓	✓	✓	✓		
Cameron Parish Lib. [1991]	✓					✓	✓	✓
DeQuincy Branch [1992]	✓	✓	✓	✓	✓			
Hayes Branch [1992]	✓	✓	✓	✓	✓			
Iowa Branch [1992]	✓	✓	✓	✓	✓			
Carnegie Memorial Branch, Lake Charles [1992]	✓	✓	✓	✓	✓			
Central Lib., Lake Charles [1993]	✓	✓	✓	✓	✓			
Epps Memorial Branch, Lake Charles [1992]	✓	✓	✓	✓	✓	✓		
Vernon Parish Lib., Leesville [?]	✓			✓				
Moss Bluff Branch [1993]	✓	✓	✓	✓	✓			
Cecilia Branch Lib., St. Martinville [?]	✓	✓	✓	✓				
St. Martin Parish Lib., St. Martinville [1992]	✓	✓	✓	✓				
Stephensville Branch Lib., St. Martinville [?]	✓	✓	✓	✓				
Starks Branch [1992]	✓	✓	✓	✓	✓			
Maplewood Branch, Sulphur [1992]	✓	✓	✓	✓	✓			
Sulphur Regional Branch [1992]	✓	✓	✓	✓	✓			
Fontenot Memorial Branch, Vinton [1992]	✓	✓	✓	✓	✓			
Westlake Branch [1993]	✓	✓	✓	✓	✓			
Winn Parish Lib. [1992]	✓							
MARYLAND								
Loch Raven Branch, Baltimore [1992]			✓	✓	✓			
E. Columbia Major Branch Lib. [1993]	✓	✓	✓	✓	✓	✓		
Elkridge Branch Lib. [1993]	✓	✓	✓	✓	✓			
Laurel Branch [1992]	✓	✓	✓	✓		✓	✓	✓
Whiteford Branch Lib. [1991]								✓
MASSACHUSETTS								
Jones Library, Amherst [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Robbins Lib., Arlington [1993]						✓		
Attleboro PL [1993]	✓	✓	✓	✓	✓			
Bedford PL [?]	✓	✓		✓				
Boston PL [1995]	✓	✓	✓	✓	✓	✓	✓	✓
Duxbury Free Lib. [1996]	✓	✓						
Parlin Memorial Lib., Everett [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Holmes PL, Halifax [?]	✓	✓	✓	✓	✓	✓		
Frederic C. Adams PL, Kingston [1992]		✓	✓	✓				
Lynnfield PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Middleborough PL [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Newton Free Library [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Flint Memorial Lib., No. Reading [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Forbes Lib., Northampton [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Snow Lib., Orleans [1991]								✓
Plympton PL [1991]			✓	✓		✓	✓	✓
Rockland Memorial Library [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Southwick PL [?]				✓				
Richard Sugden Lib., Spencer [?]	✓	✓	✓	✓	✓			
Springfield City Lib. [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Waltham PL [1992]	✓	✓	✓	✓	✓	✓	✓	
West Springfield PL [1991]	✓	✓	✓	✓	✓	✓		
West Tisbury Free PL [?]	✓	✓	✓	✓	✓			
Weston PL [1993]	✓	✓	✓	✓	✓			
Williamstown PL [1993]	✓							
Woburn PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
MICHIGAN								
Ann Arbor PL [1991]								✓
Fred C. Fischer PL, Belleville [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Independence Twp. PL, Clarkston [1991]	✓	✓	✓	✓		✓	✓	✓
Marlette District Lib. [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Oscoda Cty. Lib., Mio [?]	✓							
Veterans Memorial Lib., Mt. Pleasant [?]					✓			
Egelston Branch, Muskegon [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Paw Paw District Lib. [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Petoskey PL [1992]	✓	✓		✓	✓			
Plymouth District Lib. [1994]	✓			✓				
Rochester Hills PL [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Hoyt Lib., Saginaw [1992]				✓	✓	✓		
Dalton Twp. Branch Lib., Twin Lake [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Weberville Branch [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Wixom PL [1991]	✓	✓	✓	✓	✓	✓		
MINNESOTA								
Ada PL [1992]				✓		✓	✓	✓
Aitkin PL [?]	✓	✓		✓	✓			
Douglas Cty. Lib., Alexandria [?]	✓			✓	✓			
Benson PL [1992]			✓	✓	✓			
Dakota Cty. Lib., Eagan [1992]								✓
Southdale-Hennepin Area Lib., Edina [1994]			✓	✓	✓	✓		✓
Foley PL [1992]	✓	✓	✓	✓				✓
Hector PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Hinckley PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Hoyt Lakes PL [1992]								✓
Washburn Community Lib., Minneapolis [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Princeton Community Lib. [?]	✓			✓				
St. Paul PL [1992]						✓		
Sandstone PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
MISSISSIPPI								
Batesville PL [1991]	✓	✓	✓	✓	✓			
Northwest Point Reservoir Lib., Brandon [?]	✓							
Itawamba Cty. Lib., Fulton [1992]	✓	✓	✓	✓	✓	✓		
Megee PL [?]			✓	✓	✓			
Morton PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Moss Point City Lib. [1992]	✓		✓	✓	✓	✓	✓	✓
Armstrong Lib., Natchez [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Pass Christian PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Richland PL [1992]	✓		✓	✓	✓	✓		
Richland PL [1992]						✓		
Ridgeland PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
MISSOURI								
Blue Ridge Branch Lib. [1991]	✓	✓	✓	✓		✓	✓	✓
Liberty Branch Lib. [1991]	✓	✓	✓	✓		✓	✓	✓
Parkville Branch Lib. [1992]	✓	✓	✓	✓				
Riverside Branch Lib. [1991]	✓	✓	✓	✓		✓	✓	✓
NEBRASKA								
Beatrice PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Central City PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Franklin PL [1991]	✓	✓	✓	✓		✓	✓	✓
Gretna PL [1991]	✓	✓	✓	✓	✓			
NEVADA								
Nevada State Lib. & Archives, Carson City [1992]								✓
Clark Cty. Lib., Las Vegas [1994]	✓	✓	✓	✓	✓			
E. Las Vegas Lib. [1994]	✓	✓	✓					
Enterprise Lib., Las Vegas [1995]	✓		✓					
Rainbow Lib., Las Vegas [1993]	✓	✓	✓	✓	✓			
Summerlin Lib., Las Vegas [1994]	✓	✓	✓	✓	✓			
Sahara West Lib., Las Vegas [1995]	✓	✓	✓	✓	✓			
W. Charleston Lib., Las Vegas [1993]	✓	✓	✓	✓	✓			
W. Las Vegas Lib. [1993]	✓		✓					
Laughlin Lib. [1994]	✓		✓					
Lake Tahoe Branch Lib., Minden [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Wells Branch Lib. [1991]	✓	✓	✓	✓	✓	✓	✓	✓
NEW HAMPSHIRE								
Griffin Free PL & Museum, Auburn [1991]	✓							✓
Brookline PL [?]	✓							
Smyth PL, Candia [1993]	✓							
Chesterfield PL [1995]	✓							
Fiske Free Lib., Claremont [2000]	✓							
Philbrick-James Lib., Deerfield [?]	✓							
Gorham PL [?]	✓							
Fuller PL, Hillsboro [?]	✓							
Keene PL [1992]	✓	✓	✓	✓	✓	✓	✓	✓

NAME OF LIBRARY	STAGES							
	1	2	3	4	5	6	7	8
Kensington Social & PL [?]	✓							
Laconia PL [1991]	✓	✓	✓	✓	✓	✓		
Weeks Memorial Lib., Lancaster [?]	✓							
Lincoln PL [?]	✓		✓					
Madison Lib. [1993]	✓							
Ronham Memorial Lib., Nelson [?]	✓			✓	✓			
Philip Read Memorial Lib., Plainfield [?]	✓							
Dudley-Tucker Lib., Raymond [?]	✓			✓	✓			
Rye PL [1992]			✓	✓	✓			
Sandown PL [1991]	✓		✓	✓	✓	✓	✓	✓
Brown Lib., Seabrook [?]	✓	✓						
Somersworth PL [?]	✓							
Cass Memorial Lib., Springfield [1992]	✓			✓	✓			
Thornton PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Wilton PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Conant PL, Winchester [1992]		✓	✓	✓	✓	✓		
NEW JERSEY								
Berkeley Branch, Bayville [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Clifton PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Elizabeth PL [1992]					✓			
Ft. Lee PL [1993]	✓			✓				
Rohrer Memorial Lib., Haddon [1992]	✓	✓	✓	✓	✓	✓		
Highland Park PL [1993]	✓	✓		✓	✓			
Madison PL [1991]	✓	✓	✓	✓		✓	✓	✓
Old Bridge PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Paterson Free PL [1992]	✓	✓	✓	✓	✓			
Plainsboro Free PL [1992]							✓	
Dowdell Lib., South Amboy [1994]	✓			✓				
NEW MEXICO								
Thomas Branigan Lib., Las Cruces [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Mesa PL [1994]	✓	✓	✓	✓	✓			
NEW YORK								
Guilderland PL, Albany [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Bethpage PL [?]	✓	✓		✓				
Broome County PL, Binghamton [?]	✓	✓						
Bayport-Blue Point PL, Blue Point [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Brewster PL [?]	✓	✓	✓	✓		✓		
Sedgwick Branch, Bronx [1992]	✓	✓	✓	✓	✓	✓	✓	
W. Farms Branch, Bronx [1992]	✓	✓	✓	✓	✓	✓	✓	
Brighton Beach Branch, Brooklyn [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Brooklyn Heights/Busines Lib. [1993]	✓	✓	✓	✓	✓	✓	✓	✓
Cypress Hills Branch, Brooklyn [1993]	✓	✓	✓	✓	✓	✓		
McKinley Park Branch, Brooklyn [1993]	✓	✓	✓	✓	✓			
Midwood Branch Lib., Brooklyn [1993]	✓	✓	✓					
Kent PL, Carmel [1992]	✓	✓	✓	✓	✓	✓		
Lyme Free Lib., Chaumont [1995]	✓			✓	✓			
Village Lib. of Cooperstown [1993]	✓							
Eden Library [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Farmingdale Lib. [1994]	✓	✓	✓	✓	✓			
Floral Park PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Geneva Free Lib. [1993]	✓	✓	✓	✓	✓			
Guilderland PL [1992]					✓	✓		
Haverstraw King's Daughters PL [1993]	✓							
Hicksville PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Tompkins Cty. PL, Ithaca [1991]		✓	✓	✓		✓	✓	✓
Katonah Village Library [1991]	✓	✓	✓	✓	✓	✓		
Peninsula PL, Lawrence [?]	✓	✓		✓				
Lindenhurst Memorial Lib. [1991]								✓
Liverpool PL [1994]	✓							
Lynbrook PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Massapequa PL [1994]	✓			✓	✓			
Massapequa PL, Massapequa Park [?]	✓	✓		✓				
Massena PL [1992]	✓	✓	✓	✓	✓			
Merrick PL [?]	✓	✓		✓				
Thrall Lib., Middletown [?]	✓							

NAME OF LIBRARY	STAGES							
	1	2	3	4	5	6	7	8
Moffat Lib. [1992]	✓	✓	✓	✓		✓		
Montauk Lib. [1991]	✓	✓	✓	✓		✓	✓	✓
Mt. Kisco PL [1991]	✓	✓	✓	✓		✓	✓	✓
Aguilar Branch, New York [1993]	✓	✓	✓	✓	✓	✓		
Library for the Blind & Physically Handicapped, New York [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Riverside Branch, New York [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Tompkins Square Branch, New York [1992]	✓	✓	✓	✓	✓	✓		
Washington Heights Branch, New York [1993]	✓	✓	✓	✓	✓	✓	✓	
Newfield PL [1994]	✓							
Platt Cady Lib., Nichols [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Oyster Bay-East Norwich PL [1992]	✓	✓	✓	✓		✓	✓	✓
Palisades Free Lib. [?]				✓				
Pearl River PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Town of Pelham PL [1993]	✓			✓	✓			
Phoenix PL [1991]	✓	✓	✓	✓	✓	✓	✓	
Piermont PL [1994]	✓			✓				
Port Jervis Free Lib. [1992]	✓							
Brighton Memorial Lib., Rochester [1994]	✓							
Rockville Centre PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Roosevelt PL [1992]	✓	✓	✓	✓			✓	✓
Seaford PL [1992]	✓	✓	✓	✓	✓	✓		
Mastics-Moriches-Shirley PL, Shirley [1993]	✓	✓		✓	✓			
Sidney Memorial PL [1993]	✓			✓	✓			
Spencer Lib. [1991]				✓		✓		
Great Kills Branch, Staten Island [1993]	✓	✓	✓	✓	✓			
Tottenville Branch, Staten Island [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Tappan Lib. [1993]	✓	✓		✓	✓			
Ulysses Philomasthic Lib., Trumansburg [1992]	✓							
Tuxedo Park Library [1992]				✓	✓			
Uniondale PL [1992]	✓	✓	✓	✓				✓
Valley Cottage Lib. [1993]	✓			✓	✓			
Ogden Free Lib., Walton [1992]	✓			✓	✓	✓		
Walworth-Seely PL [1992]	✓	✓	✓	✓	✓	✓	✓	
Waterloo Lib. [1992]					✓			
Westbury Memorial PL [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Western Town Lib., Westernville [1992]	✓	✓	✓	✓	✓			
White Plains PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
NORTH CAROLINA								
Chapel Hill PL [1994]	✓	✓	✓	✓	✓			
Univ. City Branch Lib., Charlotte [1992]	✓	✓	✓	✓	✓	✓		
Denton PL [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Southwest Branch Lib., Durham [1992]		✓	✓	✓		✓		
Cumberland Cty. PL & Info Ctr., Fayetteville [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Chavis Lifelong Lrng. Branch, Greensboro [1992]			✓					
Greensboro PL Branch Lib. [1993]			✓					
Greensboro PL Main Lib. [1994]			✓					
Henderson Cty. PL, Hendersonville [1991]	✓	✓	✓	✓	✓	✓	✓	✓
High Point PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
NORTH DAKOTA								
Hebron PL [1991]			✓	✓			✓	✓
Minot PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Ft. Berthold Reservation PL, New Town [1992]	✓	✓	✓	✓	✓	✓	✓	✓
OHIO								
Andover PL [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Ashtabula Cty. District Lib. [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Seneca East PL, Attica [1992]	✓			✓	✓			
Aurora Memorial Lib. [1991]	✓	✓	✓	✓		✓	✓	✓
Clermont Cty. Lib., Batavia [?]				✓		✓		
Bedford Branch Lib. [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Logan Cty. District Lib., Bellefontaine [?]	✓			✓	✓			
Bexley PL [1992]								✓
Brooklyn Branch Lib. [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Canal Fulton PL [1992]	✓	✓	✓	✓	✓	✓	✓	✓

NAME OF LIBRARY	STAGES							
	1	2	3	4	5	6	7	8
Smith Lib., Cleveland [1991]	✓	✓	✓	✓		✓	✓	✓
Columbiana PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Livingston Branch, Columbus [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Northern Lights Branch, Columbus [1993]	✓	✓	✓	✓	✓			
South High Branch, Columbus [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Westland Area Lib., Columbus [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Conneaut Carnegie Lib. [?]	✓							
Viets Memorial Lib., Cortland [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Crestline PL [1993]				✓	✓			
Creston Branch Lib. [1991]								✓
Wright Memorial PL, Dayton [1991]	✓	✓	✓	✓				✓
Delaware Cty. District Branch Lib. [1992]	✓	✓	✓	✓	✓			
Delaware Cty. District Main Lib. [1992]	✓	✓	✓	✓	✓			
East Cleveland PL [1991]	✓	✓	✓	✓		✓	✓	✓
Carnegie PL, East Liverpool [1992]						✓		
East Palestine Memorial PL [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Eastlake Lib. [1992]	✓	✓	✓	✓	✓			
Fairborn Community Lib. [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Findlay-Hancock County PL, Findlay [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Garfield Heights Branch [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Hubbard PL [?]	✓							
Independence Branch Lib. [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Kirtland PL [1992]	✓	✓	✓	✓	✓	✓		
Fairfield Cty. District Lib. [1992]	✓	✓	✓	✓	✓	✓		
Wagnalls Memorial Lib., Lithopolis [1992]	✓	✓	✓	✓				✓
Wescoat Memorial Lib., McArthur [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Washington Cty. PL [1992]						✓		
Medina Cty. District Lib. [1992]	✓			✓	✓			
Sylvester Lib., Medina [1992]	✓	✓	✓	✓	✓			
New Madison PL [1991]						✓		
Tuscarawas Cty. PL, New Philadelphia [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Cuyahoga Cty. PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Parma-Snow Branch, Parma [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Rupp PL, Port Clinton [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Rocky River PL [1993]	✓	✓		✓	✓			
Shaker Heights PL Branch Lib. [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Shaker Heights PL Main Lib. [1992]	✓	✓	✓	✓	✓			
Marvin Memorial Lib., Shelby [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Schiappa Branch, Steubenville [1992]	✓	✓	✓	✓	✓			
Community Lib., Sunbury [1993]		✓		✓	✓			
Tipp City PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Trotwood Branch [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Twinsburg PL [?]			✓	✓				
Ritter PL, Vermillion [?]	✓	✓		✓				
Westerville PL [1993]	✓	✓		✓	✓			
Willoughby Lib. [1994]	✓	✓	✓	✓	✓			
Willoughby Hills Community Center & Library [1992]	✓	✓	✓	✓	✓			
Willowick Lib. [1993]	✓	✓	✓	✓	✓			
Green Cty. PL, Xenia [1991]	✓	✓	✓	✓	✓	✓	✓	✓
PL of Youngstown & Mahoning Cty. [1992]	✓	✓	✓	✓	✓	✓	✓	✓
OKLAHOMA								
Healdton Community Lib., Ardmore [1992]			✓	✓	✓			
Bartlesville PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Chandler Lib. [1992]	✓	✓	✓	✓				
Jim Lucas Checotah PL [1991]								✓
Slief Memorial Lib., Cheyenne [1992]	✓	✓		✓				
Will Rogers Lib., Claremore [1991]	✓	✓	✓	✓	✓			
Clinton PL [1991]	✓	✓		✓				
Glenpool Lib. [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Carnegie Lib., Guthrie [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Perry Carnegie Lib. [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Sallisaw Lib. [1992]	✓	✓	✓	✓	✓			
Tubbs Memorial Lib., Sallisaw [1991]	✓	✓	✓	✓	✓	✓	✓	✓

NAME OF LIBRARY	STAGES							
	1	2	3	4	5	6	7	8
Pratt Lib., Sand Springs [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Stillwater PL [1993]	✓	✓	✓	✓	✓			
Hardesty South Regional Lib., Tulsa [1991]	✓	✓	✓	✓	✓	✓	✓	✓
South Tulsa Library, Tulsa [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Waurika PL [1990]	✓	✓	✓	✓	✓	✓	✓	✓
Weatherford PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Wewoka PL [1991]							✓	✓
OREGON								
Corvallis-Benton Cty. PL [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Philomath Branch, Corvallis [1992]	✓	✓		✓				
Eugene PL [?]	✓	✓		✓	✓			
Driftwood Lib., Lincoln City [1992]			✓					
Douglas Cty. Lib. System, Roseburg [?]		✓		✓	✓			
Toledo PL [?]						✓		
PENNSYLVANIA								
Brownsville Free PL [?]	✓							
Abington Community Lib., Clarks Summit [1992]								✓
East Berlin Community Lib. [1991]			✓					✓
Ephrata PL [1993]	✓	✓		✓	✓			
Adams Cty. Lib. System, Gettysburg [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Magill Lib., Haverford [1992]						✓		✓
Huntingdon Valley Lib. [1992]	✓	✓		✓	✓			
Peoples Lib., New Kensington [1992]	✓	✓	✓	✓	✓	✓		
Pottstown PL [1993]	✓	✓	✓	✓	✓	✓	✓	✓
Franco Lib./Learning Ctr., Reading [1991]								✓
Saxton Community Lib. [1992]	✓	✓	✓	✓				
Spring Grove Area PL [1991]	✓	✓	✓	✓		✓	✓	✓
Citizens Lib., Washington [1992]			✓			✓	✓	✓
Wyalusing PL [1991]								✓
RHODE ISLAND								
Glocester Manton Lib., Chepachet [1992]	✓			✓	✓			
Smith Memorial Lib., Harrisville [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Jamestown Philomenian Lib. [1993]	✓	✓		✓	✓	✓		
Brownell Lib., Little Compton [?]		✓			✓			
North Kingstown Free Lib. [?]	✓							
Rochambeau Branch, Providence [?]	✓				✓			
Hale Branch Lib., Wakefield [1991]	✓	✓	✓	✓	✓	✓	✓	✓
West Warwick PL System [1991]	✓	✓	✓	✓	✓	✓	✓	✓
SOUTH CAROLINA								
Midland Valley Lib., Bath [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Beaufort County Lib. [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Blythewood Branch Lib. [1992]	✓	✓	✓	✓	✓			
James Island Branch, Charleston [1992]	✓	✓	✓	✓	✓	✓		
Main Lib., Charleston [1993]	✓	✓		✓	✓			
St. Andrews Regional Branch, Charleston [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Cooper Branch, Columbia [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Richland Cty. PL, Columbia [1992]	✓	✓	✓	✓	✓	✓	✓	✓
South Carolina State Lib., Columbia [?]	✓	✓	✓	✓	✓			
Southeast Regional Branch, Columbia [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Horry Cty. PL, Conway [1992]			✓					✓
Iva Branch Lib. [1992]	✓	✓	✓	✓	✓	✓	✓	✓
McClellanville Branch [1992]	✓	✓	✓	✓	✓	✓		
Mt. Pleasant Regional Branch [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Village Branch, Mt. Pleasant [1991]	✓		✓					
Dorchester Rd. Regional, N. Charleston [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Otranto Rd. Regional, N. Charleston [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Edgar Allan Poe Branch, Sullivans Island [1992]	✓	✓	✓	✓	✓	✓		
W. Columbia/Cayce Lib. [1992]						✓		
TENNESSEE								
Southeast Branch Lib., Antioch [1991]	✓	✓	✓	✓		✓	✓	✓
Brownsville-Haywood Cty. Lib. [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Bicentennial Lib., Chattanooga [1992]			✓	✓	✓			

NAME OF LIBRARY	STAGES							
	1	2	3	4	5	6	7	8
Ooltewah/Collegedale Branch Lib., [1992]			✓	✓		✓		
Sequatchie Cty. PL, Dunlap [1992]	✓	✓	✓	✓	✓			
Martin Curtis/Hendersonville PL [1992]	✓	✓	✓	✓	✓	✓	✓	
Jasper PL [?]	✓	✓		✓	✓			
Washington Cty.-Gray Lib., Jonesborough [1992]	✓	✓	✓	✓	✓			
Kingston Lib. [1992]	✓	✓	✓	✓	✓	✓		
Macon Cty. Lib., Lafayette [1992]		✓	✓	✓	✓			
Magness Lib., McMinnville [?]	✓	✓		✓	✓			
North Memphis Branch, Memphis [1993]	✓	✓	✓	✓	✓			
Pkwy. Village/Fox Meadows Reg., Memphis [1993]	✓	✓	✓	✓	✓	✓		
Bledsoe Cty. PL, Pikeville [1991]	✓	✓	✓	✓				
Elmer Hinton Lib., Portland [1992]			✓	✓				
TEXAS								
N. Loop Area Branch, Austin [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Kinney Cty. PL, Brackettville [1992]		✓	✓	✓	✓			
Moreau Memorial Lib., Buda [1992]	✓	✓	✓	✓	✓			
Van Zandt Cty. Lib., Canton [?]				✓	✓			
Delta Cty. PL, Cooper [1992]	✓		✓	✓				
William T. Cozby PL, Coppell [1993]				✓				
DeSoto PL [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Duncanville PL [1994]	✓				✓			
Armijo Branch, El Paso [1992]	✓	✓	✓	✓	✓	✓		
Irving Schwartz Branch, El Paso [1991]						✓	✓	✓
Graham PL [1993]	✓	✓	✓	✓	✓			
Grand Prairie Memorial Lib. [1993]	✓							
Robinson-Westchase Lib., Houston [1991]		✓	✓	✓	✓	✓	✓	✓
Lampasas PL [1992]	✓	✓	✓	✓	✓			
Marble Falls Lib. [?]	✓							
Plano PL System [1993]	✓	✓	✓	✓				
Tawakoni Area PL, Quinlan [1992]	✓		✓	✓	✓			
Rockwall Cty. Lib. [1991]	✓	✓	✓	✓	✓	✓	✓	✓
San Marcos PL [1994]	✓		✓	✓				
Tatum Branch Lib. [1992]	✓		✓	✓	✓			
Cameron-J. Jarvis Municipal Lib., Troup [1991]				✓				✓
Van Alstyne PL [?]	✓							
UTAH								
Uintah Cty. Lib., Vernal [1991]	✓	✓	✓	✓	✓	✓	✓	✓
VERMONT								
Richmond Free Lib. [1991]	✓	✓	✓	✓	✓	✓	✓	✓
VIRGINIA								
Alexandria Lib. [1993]	✓	✓		✓	✓			
Burke Branch, Alexandria [1998]	✓							
Community Lib., Alexandria [2000]	✓							
Duncan Branch, Alexandria [1995]	✓							
Sherwood Regional PL, Alexandria [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Amherst Cty. PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
G. Mason Regional Lib., Annandale [1995]	✓	✓	✓	✓	✓			
Jamerson Memorial Lib., Appomattox [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Arlington Cty. Central Lib. [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Bedford PL [1994]				✓	✓			
Clarksville Area Lib. Branch, Boydton [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Kings Park Community Lib., Burke [1993]	✓	✓	✓	✓	✓	✓	✓	✓
Centreville Regional Lib. [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Chantilly Regional Lib. [1993]	✓	✓	✓	✓	✓	✓	✓	
Jefferson-Madison Reg., Charlottesville [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Chesapeake Central Lib. [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Greenbrier Library, Chesapeake [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Russell Memorial Lib., Chesapeake [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Central Lib., Chesterfield [1993]	✓	✓	✓	✓	✓			
Enon Branch, Chesterfield [1992]	✓	✓	✓	✓	✓			
West Branch Lib., Chesterfield [1993]	✓	✓	✓	✓	✓			
Govt. Lib. & Info. Ctr., Fairfax [1992]	✓	✓						
Mary Riley Styles PL, Falls Church [1993]					✓			

NAME OF LIBRARY	STAGES							
	1	2	3	4	5	6	7	8
Cntrl. Rappahannock Reg., Fredericksburg [1994]	✓		✓					
North Stafford Branch, Fredericksburg [1992]	✓	✓	✓	✓	✓	✓		
Great Falls Lib. [?]	✓	✓	✓	✓	✓			
Rockingham PL, Harrisonburg [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Herndon Community Lib. [1995]	✓	✓	✓	✓	✓			
Thomas Balch Lib., Leesburg [1995]	✓							
Leesburg Lib. [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Bull Run Regional Lib., Manassas [1993]	✓	✓	✓	✓	✓			
Midlothian Branch Lib. [1993]	✓	✓	✓	✓	✓			
Orange Cty. Branch Lib. [1995]	✓							
Orange Cty. Main Lib. [1998]	✓							
Bull Run Regional Lib., Prince William [1993]	✓	✓	✓	✓	✓			
Chinn Park Regional Lib., Prince William [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Purcellville Lib. [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Bon Air Branch, Richmond [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Staunton PL [1993]				✓	✓			
Eastern Loudoun Regional Lib., Sterling [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Patrick Henry Community Lib., Vienna [1995]	✓	✓	✓	✓	✓			
Princess Anne Lib., Virginia Beach [?]	✓	✓	✓	✓				
Fauquier Cty. Lib., Warrenton [1991]	✓	✓	✓	✓	✓			
WASHINGTON								
Bothell Regional Lib. [1993]	✓	✓	✓	✓	✓			
Burien Lib. [1993]			✓	✓	✓			
Deming Lib. [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Federal Way Lib. [1991]	✓	✓	✓	✓	✓	✓	✓	✓
N. Federal Way Lib. [1995]	✓	✓	✓					
Ferndale Lib. [1992]	✓	✓	✓	✓	✓	✓	✓	
Covington Resource Lib., Kent [1993]	✓	✓	✓	✓	✓			
Maple Valley Lib. [1995]	✓	✓	✓					
Medical Lake Lib. [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Sammamish Lib., Redmond [1995]	✓	✓	✓					
Richmond Beach Community Lib. [1993]	✓		✓	✓				
Shoreline Lib., Seattle [1993]	✓	✓	✓	✓	✓	✓		
Downtown Lib., Spokane [1993]	✓	✓	✓	✓	✓			
East Side Branch, Spokane [1993]	✓		✓					
Hillyard Branch, Spokane [1993]	✓		✓					
North Side Lib., Spokane [1994]	✓							
Otis Orchard Lib., Spokane [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Shadle Branch, Spokane [1994]			✓					
South Hill Lib., Spokane [1994]			✓					
Woodinville Lib. [1993]	✓	✓	✓	✓	✓			
WEST VIRGINIA								
Bolivar-Harpers Ferry PL [1991]	✓	✓	✓	✓	✓	✓	✓	
Philippi PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Stephenson Memorial Lib., Summersville [1992]	✓	✓	✓	✓	✓			
WISCONSIN								
Clintonville PL [1991]							✓	✓
Columbus PL [1991]	✓		✓	✓	✓	✓	✓	✓
L.E. Phillips Memorial PL, Eau Claire [1992]					✓			
Horicon PL [1992]	✓	✓	✓	✓	✓	✓		
Johnson Creek PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Kenosha PL [1993]	✓	✓	✓	✓	✓			
Mazomanie Free Lib. [1992]	✓			✓				
Llewellyn Neighborhood Lib., Milwaukee [1993]	✓	✓	✓	✓	✓			
Cook Memorial Lib., Oconto Falls [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Plover Branch Lib. [1991]	✓	✓	✓	✓	✓	✓	✓	✓
Muehl PL, Seymour [1992]		✓	✓	✓	✓			
Shell Lake PL [1992]	✓	✓	✓	✓	✓	✓	✓	✓
Portage Cty. PL, Stevens Pt. [1992]		✓	✓	✓		✓	✓	✓
Superior PL [1991]								✓
Waupaca PL [1993]	✓			✓	✓			
Weyauwega PL [1991]	✓	✓	✓	✓	✓	✓	✓	✓
WYOMING								
Big Piney Branch Lib. [1991]							✓	✓

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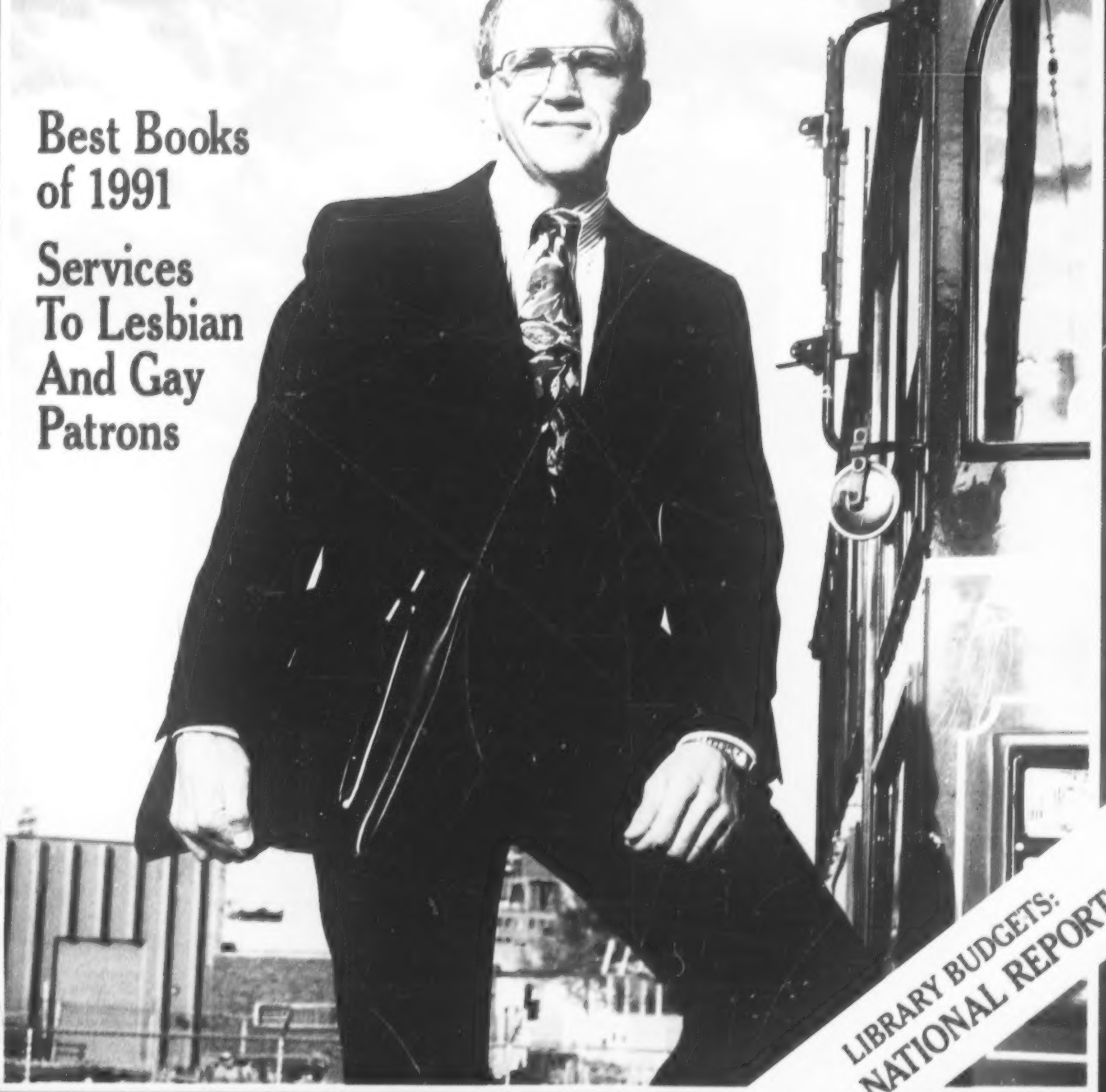
Director, Kansas City Public Library, Mo.



Best Books of 1991

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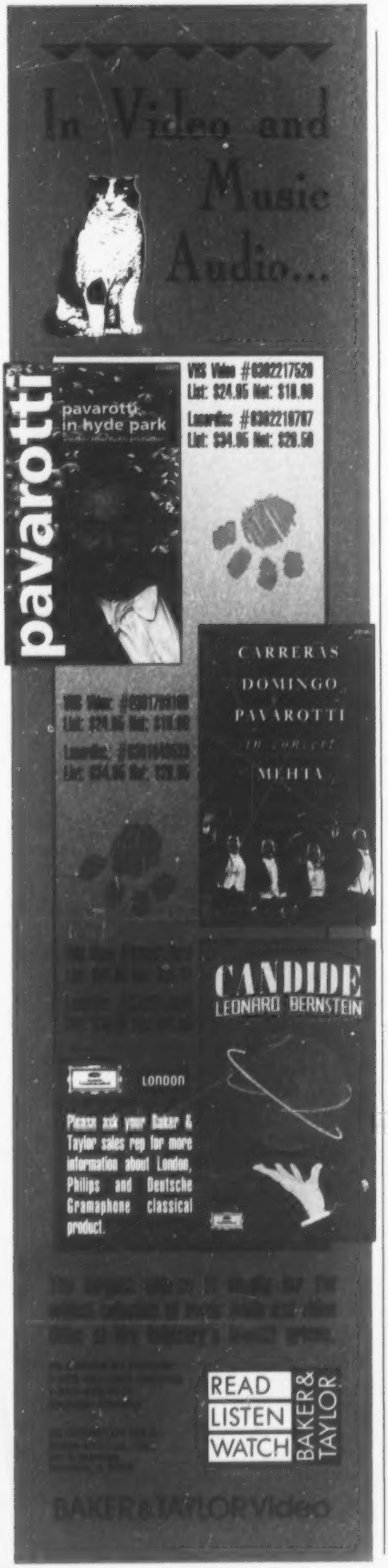
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Stepping off Kansas City's trolley car is K.C. Public Library Director Daniel J. Bradbury. His uphill, ultimately successful battle to steer his system back to prosperity has made him our Librarian of the Year. His saga begins on p. 47.

PHOTOGRAPH BY BOB BARRETT

January 1992

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LIBRARY MARKET OUTLOOK

BY DEBORAH SELSKY

Libraries To Spend $1.45 Billion on Books

Decreasing tax revenues have brought cutbacks in local government spending and tighter library budgets. There are still regional differences, but the effects of the current recession have begun to impact library budgets and will do so for several years.

The Book Industry Study Group (BISG) estimates library spending on materials at $2.6 billion for 1991, up 5.7% over 1990. After adjusting for inflation, however, the growth rate is flat for the year. Be sure to note, however, that word "estimates." The data are taken from the Group's annual *Book Industry Trends*. BISG simply extrapolates data "based on the earlier *Trends*." None of the data are totally reliable or precise. Estimates of library purchases in various book markets are likely to be based on conservative estimates going back several years, since there is no new hard data.

The current estimates do show that about $1.38 billion of library spending went for books last year—a gain of 4.4%. The smallest sector—special libraries—represents 10% of all library book purchases and increased spending the most at 7.2%. The largest sector—public libraries—accounted for 37.5 percent of library book spending and increased book expenditures by 5% last year. Book spending by school and academic libraries rose 4.2% and 2.6%, respectively.

Spend more, get less

Total library materials expenditures in 1992 are projected to grow 6.7%. Materials price inflation is in the 4-5% range, although it is much higher for serials (journals). Thus, the increased spending in 1992 will not result in growth in library collections. The rapid growth in periodical prices will force libraries to spend a larger portion of their budgets on periodicals.

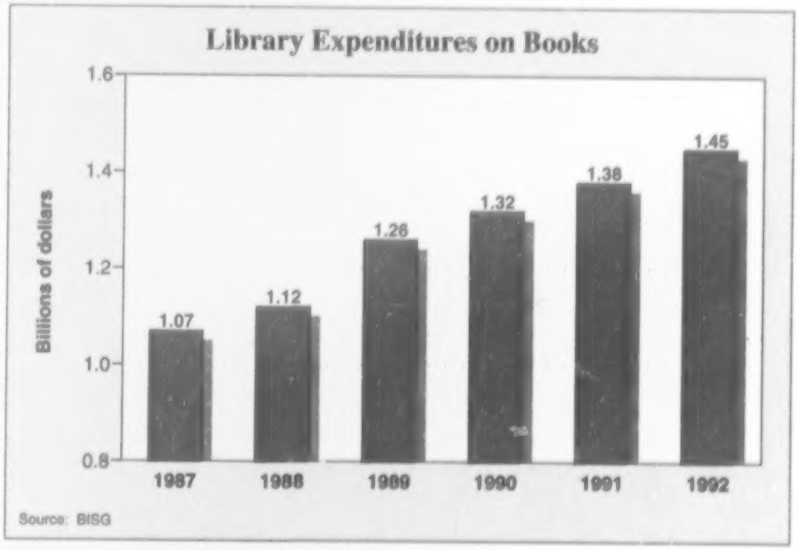
In 1986, book spending was 54% of all library acquisitions. By 1991, this share had dropped to 51 percent. Still, spending on books should remain healthy. In 1992, book acquisitions should total $1.45 billion.

A stable, growing market

Libraries remain a stable, growing market for books. Even the low estimates from the conservative BISG show libraries buying 10.6% of all books sold. BISG admits that libraries play a more significant role in certain book categories. Libraries buy 26.9% of university press books and 21.8% of professional books. BISG estimates that libraries buy 13.8% of juvenile trade books, but many feel that figure is low.

Over the longer term, library spending on books should grow 6.4% per year through 1995, adding an additional 2.1 million books to libraries each year. Public libraries will be responsible for 43% of these purchases.

Deborah Selsky is an economist with Cahners Economics, which provides industry analyses and forecasting services for the markets its magazines serve



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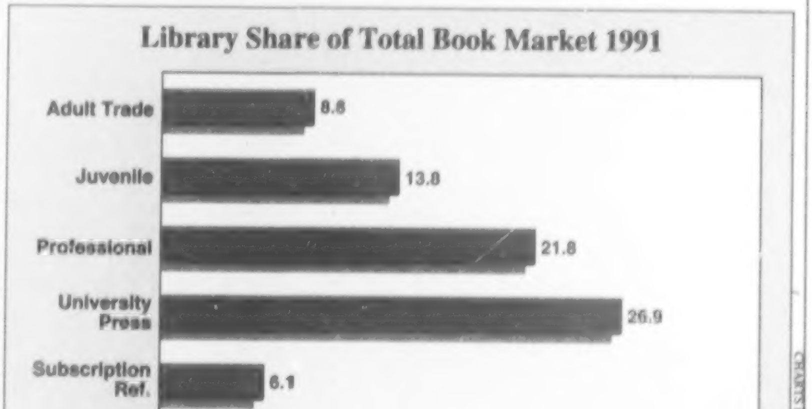

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LIBRARY JOURNAL

FEBRUARY 1, 1992

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DIGITAL DREAMS:
A CD-ROM Users' Wish List

CD-ROM Library Survey

The Print Prison

Home Renovation Books

UC–Santa Barbara's Chuck Huber
and Cheryl LaGuardia

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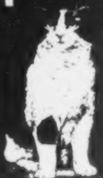

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Multimedia CD-ROM: a winning combo for libraries

UC–Santa Barbara's Huber and LaGuardia won't be caught napping when it comes to CD-ROM in libraries. They wish vendors would fulfill some of their "Digital Dreams" to prevent further technological nightmares.

PHOTOGRAPH BY LYNNE WARBERG

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It may replace print and online sources, a survey of libraries shows

CD-ROM:

The Medium of the Moment

By John Berry

PUBLIC LIBRARIANS expect to spend much more this fiscal year on CD-ROM services than their academic and special library colleagues. In its recent CD-ROM Market Study for *LJ*, Cahners Research found that 126 public libraries that offer CD-ROM services expect to spend an average of $13,533 on CD-ROM software this year. 128 academic libraries expect to spend $10,519, and 55 special libraries in the sample plan to spend an average of $8,162.

That was one surprise in the study that tallied responses from 608 libraries of the three types, 212 (35 percent) of which offer online database services, compared with 321 (63 percent) that offer CD-ROM. The materials budgets of all 608 libraries averaged $157,830.

CD-ROM outsells online

Among the librarians in the Cahners samples, CD-ROM databases are more popular than online databases. This becomes very clear when you consider libraries' total projected expenditures on the two technologies.

Libraries with online databases expect to spend an average of $17,905 on online services this fiscal year, while libraries offering CD-ROM expect to spend $10,912 on CD-ROM software and another $8,841 on CD-ROM hardware for an average total of $19,753 on CD-ROM services.

John Berry is Editor-in-Chief, *LJ*

Average Projected Expenditures, FY 1991/92

	TYPE OF LIBRARY		
	College/Univ. Library	**Public Library**	**Special Library**
CD-ROM Hardware	$5,784	$13,261	$7,787
CD-ROM Software	10,519	13,533	8,162
Online Services	5,809	11,164	53,488

The online market is "special"

In the way libraries use it and invest in it, the library market for online database services is smaller and quite different. In online services, special libraries spend much more than the other two types, and while the overall average expense projected by libraries with online services is $17,900 this fiscal year, the 48 special libraries in the survey expect to average a whopping $53,488 on their use of online databases. The 102 college and university libraries that offer online searching will spend $5,809 each, while the 54 public libraries will average $11,164.

One reason for the different level of the average amounts allocated to these two technologies must be the greater immediacy and currency attributed to online databases. Special librarians, for example, feel they must immediately retrieve and deliver the information sought, and they expect online databases to be far more current. Obviously in a corporate, special library environment, a high priority is given to the delivery of current information fast. So special libraries opt for online services to a much greater extent than their academic and public library counterparts.

CD-ROM library collections

Ten percent of the 321 libraries offering CD-ROM have their library catalog on CD-ROM, and 133 plan to purchase additional CD-ROM databases, more than 60 percent within the next two years. Seventy-two of the 129 libraries (55.8 percent) that don't have CD-ROM blame it on lack of funds, while 45 (34.9 percent) say they are simply too small to need it.

The most popular CD-ROMs are bibliographic databases (74 percent), specialized databases (32 percent), and reference works (30 percent).

Criteria for Selecting a CD-ROM Database
(RANKED BY IMPORTANCE)

- Accuracy of information/authoritativeness
- Ease of use
- Cost
- Depth/Breadth of product (i.e., years, titles covered)
- Keyword and/or Boolean searching
- Frequency of updates
- Vendor reputation
- Vendor training service/support

Information Used To Select CD-ROMs
(RANKED BY USEFULNESS)

- Comparative reviews
- Hardware/software compatibility
- Usage information (how-to, search features)
- Announcements of titles
- New technological developments

Most Popular CD-ROM Databases

	Base *
Bibliographic Databases	237
Specialized Databases	102
Reference	98
Full-Text	42
Other	39

* Those respondents who indicated that their libraries have each type of CD-ROM database.

Some 42 libraries (13 percent) claim full-text databases of one kind or another in their CD-ROM collections.

Another surprise was the fact that 57 percent of the CD-ROM collectors sometimes carry the print version of the databases, including 42 (13.1 percent) who "always" do. The bad news for print publishers is that 107 of these 321 libraries seldom or never back up the CD-ROM with a print version.

CD-ROM budgets, vendors, service

Nearly 45 percent of the libraries expect their CD-ROM software budgets to remain about the same, and 51.7 percent expect no change in their CD-ROM hardware budgets. Of the rest, 37.1 percent expect their CD-ROM software budgets to increase, with about 12 percent predicting increases of more than 21 percent, and nearly five percent by more than half. Nearly 11 percent expect their CD-ROM hardware budgets to decrease.

Of the top three vendors of CD-ROM software to libraries, SilverPlatter claims a 19.2 percent share of the market, Information Access Co. just over 15.2 percent, and EBSCO nearly 13 percent. University Microfilms International (UMI) and H.W. Wilson claim about ten percent each. Bowker claims 5.6 percent. Other vendors claim less than five percent.

It was somewhat surprising to learn that 115 libraries are called upon by sales representatives of CD-ROM firms. It was more surprising to learn that nearly 50 libraries buy *all* their CD-ROM products from those salespeople. Once they buy the stuff, more than 70 percent of the libraries are favorably impressed with CD-ROM vendor shipping, fulfillment, and invoicing. Unlike other areas in the application of systems and new technology, more than 60 percent find the technical support "good" to "excellent."

Selecting CD-ROM

The most important criterion in the selection of a CD-ROM database was, predictably, accuracy/authority. Ease of use and value for cost came in second and third, and most of the libraries felt that the "depth and breadth" of the product (scope or years and titles covered) were important.

Many felt the availability of keyword and Boolean searching was an important plus, and frequent updates were much in demand. Vendor reputation and vendor training, service, and support were important, but less so than all the other selection criteria.

> Librarians surveyed felt that the most important criterion in the selection of a CD-ROM database was accuracy/authority. Ease of use and value for cost came in second and third

The online outlook

The use of online services has increased in most (54.2 percent) of the 212 libraries offering them. It has decreased in 27.4 percent. Ninety-four of the 212 libraries with both technologies put part of the blame for the decrease in online use on CD-ROM, but half (50.9 percent) say neither impacts the other.

In those libraries where CD-ROM is changing online use, there is more searching by end users on CD-ROM, the costs are less, and the two or three most heavily used databases are now on CD-ROM. In one library, CD-ROM searching had replaced 90 percent of its online use.

On the other hand, many librarians said CD-ROM had replaced paper and print products, not online services. The popular "Infotrac," in libraries where it is being used, really replaced the *Readers' Guide* but had little impact on online searching. Many librarians asserted that they would switch to CD-ROM if their favorites were available in that format.

Nets, terminals, jukeboxes

The majority of libraries responding to the Cahners CD-ROM study had few or no system problems at all with CD-ROM, but nearly 13 percent reported "security" problems. Viruses, accessibility, and software problems were mentioned, but not as major concerns.

Only 39 libraries in the sample had CD-ROM products linked to local area networks (LANs). Novell, LANtastic, and Multiplatter were the network software packages mentioned by nearly 75 percent of the libraries involved. Only 88 of the libraries not yet on LANs (34 percent) plan to network their CD-ROM services in the next two years. The major barrier to LANs is, of course, software incompatibility.

On the average, libraries had three CD-ROM terminals for both staff and patron use and two exclusively for the staff. About 30 reported having from six to ten CD-ROM terminals for both. Jukeboxes (multi-CD-ROM changers) were employed by more than 100 of the libraries, and 17 had more than six in use. Of the 77 libraries expected to purchase jukeboxes in the next fiscal year, more than 20 expect to buy at least two.

The medium of the moment

While the survey revealed needs for additional training opportunities, extra efforts to make CD-ROM technology even more user-friendly, and better information comparing prices among vendors, CD-ROM is clearly the information technology and format of greatest popularity in libraries today. The incredible number of enthusiastic comments on the survey forms and the overwhelmingly positive responses whenever survey questions even hinted at potential problems buttress this conclusion.

Not only is it popular, CD-ROM is growing fast, and despite a majority who denied it, it is replacing online databases in many applications in many libraries, particularly those databases used most heavily by the public.

The greatest need, according to survey respondents, is more detailed and critical reviewing of CD-ROM products, not only for the quality of the information and access to it, but also in terms of technical details, user-friendliness, and cost/benefit issues.

CD-ROM is the medium of the moment in libraries. If the Cahners CD-ROM Market Study is any indication, it promises to stay in that commanding position for several years.

Vendors Used Most Often by 125 CD-ROM Software Purchasers

Vendors	Number	Percentage
SilverPlatter	24	19.2
Information Access Co.	14	15.2
EBSCO	16	12.8
UMI	12	9.6
H.W. Wilson Co.	12	9.6
R.R. Bowker	7	5.6
CD Plus	6	4.8
Michigan Library Consortium	5	4.0
Library Corp. (BiblioFile)	5	4.0
DIALOG	4	3.2
Faxon Co.	4	3.2
PALINET	4	3.2
SOLINET	4	3.2
OCLC	4	3.2
WLN	3	2.4
Ingram	3	2.4
NELINET	3	2.4
Baker & Taylor	3	2.4
AMIGOS	3	2.4
CMC ReSearch	2	1.6
Gale Research	2	1.6
NewsBank	2	1.6
BCR	2	1.6
UpData	2	1.6
General Research	2	1.6
MLNC	1	0.8
Auto-Graphics	1	0.8
Compact Cambridge	1	0.8
Gaylord	1	0.8
Oxford University Press	1	0.8
GPO	1	0.8
Other	22	17.6
No answer	22	17.6

Total exceeds 100 percent due to multiple answers

ONLINE DATABASES

BY CAROL TENOPIR

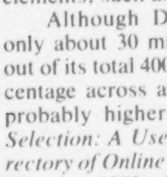
Hybrid Databases

IT USED TO be easier to categorize online databases. Bibliographic (a.k.a. indexing/abstracting) databases contained citations and other identifying information as well as subject indexing terms and sometimes abstracts; full-text (or complete) databases included the complete textual-only portions of articles or reports; directory (referral) databases provided names, addresses, and other factual information about people or organizations; and numeric databases offered statistics about all sorts of things.

Actually, the distinctions have always been somewhat fuzzy. Online systems such as DIALOG, BRS, and Mead rarely offer purely numeric data; many directory databases are actually complete texts of printed reference works; records in full-text databases also have bibliographic information.

Still, basic categories worked pretty well for major databases for a long time. Now, such categories are less relevant as the trend moves toward mixed-type or *hybrid* databases. Hybrid databases combine one or more database types, such as bibliographic/full text, bibliographic/directory, directory/full text, etc. (On CD-ROM they may also incorporate other elements, such as full text/sound.)

Although DIALOG now lists only about 30 mixed-type databases out of its total 400 databases, the percentage across all online systems is probably higher. *Online Database Selection: A User's Guide to the Directory of Online Databases* (Cuadra/Elsevier, 1989) shows hybrid ("combinations") databases to be already the second most common type (see figure). That percentage will surely increase in 1992. In this column, I'll concentrate on bibliographic/full text, a growing trend in database enhancement. The mixture offers more for your money and is making some old databases take on a new look.



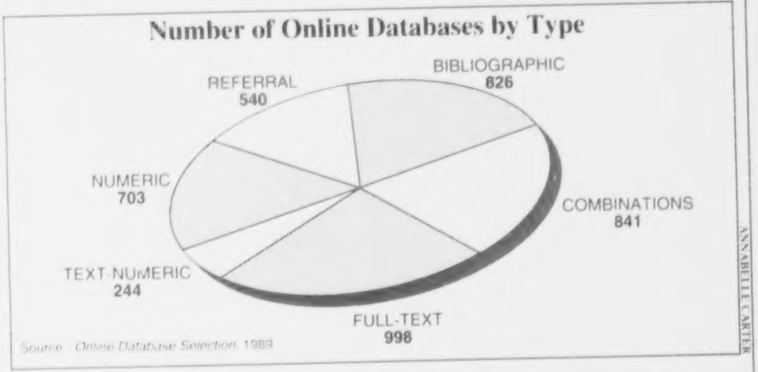
Carol Tenopir is Associate Professor at the School of Library and Information Studies, University of Hawaii at Manoa, Honolulu

Mixing record types

Hybrid databases mix different types of records within a single searchable file. They are not the same as *linked* files such as Magazine Index or Trade & Industry Index. In linked-file databases, only the bibliographic records are searchable, but after a bibliographic search is completed, some full-text documents can be displayed because they are linked to bibliographic records. Full text in these databases is really just a document delivery solution—if you want to search words in the text you must switch to sister full-text files such as Magazine ASAP or Trade & Industry ASAP.

Hybrid databases, on the other hand, include some records that are just bibliographic and other records that have full texts. When you search, you are searching in a combined inverted index of words from both the bibliographic-only records and from the full-text records. Your output will intersperse both types of records. This causes some necessary changes in search strategy, which I'll discuss in a minute.

Some of the most frequently searched online bibliographic databases have recently gone hybrid, and some others are being created that way from the start. These are not bibliographic databases in transition to completely full text—they will stay a combination of the two types, although the full text percentage is growing in all cases. Three of the most well-known and most-searched hybrid databases are: 1) ABI/INFORM from UMI/Data Courier; 2) PTS PROMPT from Predicasts; and 3) Health Periodicals Database from Information Access Company (IAC).



Source: Online Database Selection, 1989

ABI/INFORM

ABI/INFORM regularly appears on the lists of online databases that are most often used in libraries. A standard for bibliographic searching of business management literature, ABI goes back to 1971 and now includes over half a million bibliographic records taken from 800 business journal titles. It is available on many different online systems, including DIALOG, BRS, NEXIS, Data-Star, and others. It is also available on CD-ROM as part of UMI's ProQuest product line. A full-text image CD-ROM system can be used in conjunction with the CD-ROM product to provide document delivery of articles from many of the ABI titles.

Until 1991, ABI/INFORM was just a well-known and well-respected indexing/abstracting product. Each record included full bibliographic data, plus lengthy informative abstracts and in-depth indexing with controlled vocabulary descriptors. Starting in August 1991, UMI/Data Courier began adding full texts of some records to the DIALOG version of ABI. Full-text coverage on DIALOG now goes back to January 1991.

Of the current 800 ABI journal titles, articles from 105 are now available in full text. In 1992, the number of titles will grow to 250. Full-text records represent 20 percent of each month's additions to the file, and that percent will grow to 40 percent sometime in 1992.

PTS PROMPT

PTS PROMPT has been produced by Predicasts since the early 1970s. (Late last year, Predicasts was purchased by Ziff Communications, bringing it into the same family as Information Access Company.) It is the most popular of Predicasts' databases, covering a wide range of product, company, marketing, and other business information from over 1000 source documents.

For many years, PTS PROMPT was a bibliographic database whose records included descriptors and abstracts. In December 1989, full-text records from over 200 selected journal titles were added.

PTS PROMPT is a huge file—on DIALOG it includes 2.5 million records in total. Only a fraction of those are now full text, but in 1991 approximately 50 percent of the records input included the full text. Currently, about 333,000 records are full-text articles from journals, with some additional short product announcements taken from press releases.

According to Predicasts, although "the majority of titles are abstracted only, we take a few important titles for full text." The journals that are available in full text are mostly titles of major interest that are indexed nearly "cover to cover." These typically contain more articles per issue than the average journal title, so close to 50 percent of all records input last year were full text.

Health Periodicals Database

Unlike ABI/INFORM and PTS PROMPT, Health Periodicals Database is a relatively new database that was hybrid from the start. It is aimed at the layperson, in addition to the medical professional and industry researcher. It covers all aspects of health, medicine, fitness, and nutrition.

Health Periodicals is an interesting hybrid because it contains three distinct types of records: full text, indexing only, and abstracts. All three types include basic bibliographic information and controlled vocabulary indexing terms.

Most of the abstracts are actually "consumer summaries," summaries written for the layperson of technical articles from 100 professional medical journals. There are indexing records for an additional 140 titles and full text for approximately 120 professional and consumer health publications. Bibliographic records of any health-related article from IAC's other files are also placed into Health Periodicals Database. These all have indexing, and some have abstracts as well.

As of December 1991, there were approximately 274,000 records total in the database. Over 72,000 of these include the full text, with an additional 27,000 with abstracts only. (Some full-text records also have abstracts.)

Search strategies

One drawback with hybrid databases is the difficulty in formulating the most effective search strategy. Best search strategies for bibliographic databases and those for full-text databases often differ. The same free-text strategies you've been using all along will now bias your results to the full-text records in the files. Just because there are more words in a full-text record, your odds of retrieving the full-text records are greater.

Even if you are a long-time searcher of ABI/INFORM or PROMPT, it is time to rethink search techniques. In any full-text/bibliographic hybrid database the AND operator can cause difficulties. AND works perfectly well for bibliographic searching and is an ingrained habit for many searchers. Full-text searchers use the AND usually only for searching between fields—subject words anywhere in the text AND a certain publication date or author, for example. When lengthy full-text records are mixed into a bibliographic database, continued use of the AND for free-text subject searching will often result in too many false drops.

Instead, replace AND with a proximity operator recommended for full text. On DIALOG that is the (S) operator, meaning same grammatical paragraph (subfield) in full texts or same field in bibliographic records. [The (F) operator shouldn't be used even though it also means "same field" because it treats the full text as a single field rather than as grammatical subfield paragraphs.] DIALOG's (N) (near) operator with a number like (10N) or (20N) also works well. On BRS or Data-Star, use the SAME paragraph operator or the WITHin the same sentence operator.

Truncation should now be used with caution to avoid too many full-text hits. Specified stem truncation is the strategy of choice with both full-text and hybrid databases. Instead of "comput?" in ABI/INFORM on DIALOG, it is better to search "comput???" (or "comput$3" on BRS and Data-Star) if you really only need computer, computers, or computing, and not computations, computational, etc.

When viewing records, take advantage of KWIC features to view only those portions of the record that contain your search terms. Actually, especially in a hybrid database, bibliographic citation plus KWIC is the best ("TYPE set#/3,K" in DIALOG).

If you are getting too many false drops from full text, you can always eliminate the text from your search by restricting search terms to title, abstract, and descriptor words ("/ti,ab,de" on DIALOG). Data-Star makes this even easier in Health Periodicals by putting together all of the subject fields except text in a "keyword superlabel" (".KW").

Hybrid databases often offer the best of both worlds for search strategy. ABI, PROMPT, and Health Periodicals all include controlled vocabulary indexing in their full-text as well as bibliographic records, so even with full-text records you can take advantage of thesauri and the precision that comes with descriptors. Using descriptors for highly posted or potentially ambiguous terms ANDed with free-text words from titles, abstracts, or texts for jargon concepts is often the most effective combination strategy.

More bibliographic databases will be adding full-text records for those journals for which they can secure electronic republication rights. The proportion of full-text records in all hybrid databases will undoubtedly grow. As long as searchers are aware of the best ways to search these mixed-up databases, hybrid databases help solve document identification *and* document delivery problems.

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Joseph A. Boisse & Anne Beaubien
President & Conference Chair
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LIBRARY JOURNAL
ACRL Conference Preview:
Expectations of Excellence

ACRL has a full course planned at its Sixth Annual Conference in Salt Lake City. Association President Anne Beaubien and Conference Chair Joseph Boisse have "Expectations of Excellence." See our selections on page 34.

PHOTOGRAPH BY KEVIN VANDIVIER

March 15, 1992

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Mapping This Season's

Compiled by Ann Burns,
Staff Editor, *LJ*

Once more we're relying on geography to present the season's first novels. But we've decided to divide our map by region, rather than by state, so that librarians interested in local talent can choose from a wider array of authors. This season (February 1–August 31, 1992), the array will certainly be wide: more than twice as many novelists are debuting as last season (September 1, 1991–January 31, 1992).

MIDWEST

Eleanor T. Bland
Dead Time
(*St. Martin's—Mar.*)
Illinois

Richard Dooling
Critical Care
(*Morrow—Feb.*)
Missouri

Flynn J. Ell
Dakota Scouts
(*Walker—Jun.*)
North Dakota

Anne Farell
Deadly Deception
(*S. & S.—May*)
Ohio

Wayne Fields
The Past Leads a Life of Its Own
(*Poseidon Pr.: S. & S.—Apr.*)
Missouri

Vincent S. Green
Price of Victory
(*Walker—Apr.*)
South Dakota

Ron Handberg
Savage Justice
(*Birch Lane Pr.: Carol Pub. Group—Jun.*)
Minnesota

William E. Hazelgrove
Ripples
(*Pantonne Pr.—Mar.*)
Illinois

Ted Jones
Grant's War
(*Presidio Pr.—Apr.*)
Kansas

Grace Mark
The Dream Seekers
(*Morrow—Jun.*)
Illinois

Robert Rodi
Fag Hag
(*Dutton—Feb.*)
Illinois

Susan Skramstad
The Singing Teacher
(*Algonquin Bks.—Apr.*)
Michigan

Steve Szilagyi
Photographing Fairies
(*Ballantine—Jul.*)
Ohio

Steve Thayer
Saint Mudd
(*Viking—Jun.*)
Minnesota

Robert J. Waller
The Bridges of Madison County
(*Warner—Apr.*)
Iowa

SOUTH

Richard T. Conroy
Smithsonian Snafu
(*St. Martin's—Aug.*)
Washington, D.C.

Thornton Elliott
Hard Guy
(*Donald I. Fine—Feb.*)
Tennessee

Wesley Gibson
Shelter
(*Harmony: Crown—Apr.*)
Virginia

Diane Henry & Nicholas Horrock
Blood Red, Snow White
(*Little, Brown—Feb.*)
Virginia

Sam Hodges
B-Four
(*St. Martin's—Jun.*)
Florida

Nicole Jeffords
Hearts of Glass
(*Crown—Jun.*)
Texas

Nanci Kincaid
Somebody Else's Heart
(*Putnam—Jun.*)
Alabama

Graham Landrum
The Famous D.A.R. Murder Mystery
(*St. Martin's—Mar.*)
Tennessee

Molly McKitterick
The Medium Is Murder
(*St. Martin's—Mar.*)
Washington, D.C.

Patricia O'Brien
The Candidate's Wife
(*S. & S.—Feb.*)
Washington, D.C.

Severna Park (pseud.)
Speaking Dreams
(*Firebrand Bks.—Apr.*)
Maryland

Ann Patchett
Patron Saint of Liars
(*Houghton—May*)
Tennessee

George P. Pelecanos
A Firing Offense
(*St. Martin's—Apr.*)
Maryland

Marilyn T. Quayle & Nancy T. Northcott
Embrace the Serpent
(*Crown—Apr.*)
Washington, D.C. & Tennessee

Jack Ricardo
The Night G.A.A. Died
(*St. Martin's—Jun.*)
Florida

James Sallis
The Long-Legged Fly
(*Carroll & Graf Pubs.—Aug.*)
Texas

Laurence Shames
Florida Straits
(*S. & S.—Jun.*)
Florida

John E. Simpson
Crossed Wires
(*Carroll & Graf Pubs.—Aug.*)
Virginia

Gail D. Storey
The Lord's Motel
(*Persea Bks.—Aug.*)
Texas

Kathy Trocheck
Every Crooked Nanny: A Novel of Suspense
(*HarperCollins—May*)
Georgia

Brent Wade
Company Man
(*Algonquin Bks.—Feb.*)
Maryland

Bill Waggoner
Sweet Death
(*Walker—Feb.*)
Texas

Paula Webb
Domestic Life
(*S. & S.—Jul.*)
Texas

John Welter
Begin To Exit Here
(*Algonquin Bks.—Apr.*)
North Carolina

INTERNATIONAL

AUSTRALIA

Candide Baker
Women and Horses
(*St. Martin's—Apr.*)

BALI

Diana Darling
The Painted Alphabet
(*Houghton—Feb.*)

BRAZIL

Chico Buarque
Disturbance
(*Pantheon—May*)

CANADA

Darius James
Negrophobia: An Urban Parable
(*Citadel: Carol Pub. Group—May*)

Daniel Richler
Kicking Tomorrow
(*Random—Jul.*)

ENGLAND

Lisa Appignanesi
Memory and Desire
(*Dutton—Feb.*)

Vivien Armstrong
Sleight of Hand
(*St. Martin's—May*)

Trevor Barnes
A Midsummer Night's Killing
(*Morrow—May*)

Shane Connaughton
The Run of the Country
(*St. Martin's—Mar.*)

Louis de Bernieres
The War of Don Emanuelle's Nether Parts
(*Morrow—Feb.*)

Esther Freud
Hideous Kinky
(*HBJ—Apr.*)

Christine Green
Deadly Errand
(*Walker—Jul.*)

Sunetra Gupta
Memories of Rain
(*Grove Weidenfeld—Apr.*)

Robert Harris
Fatherland
(*Random—Jun.*)

Mathew Hunter
The Kremlin Armoury
(*Walker—Aug.*)

Max Marquis
The Twelfth Man
(*St. Martin's—May*)

Paul Mayersberg
Homme Fatale
(*St. Martin's—Jul.*)

Ben Okri
The Famished Road
(*Doubleday—Jun.*)

Mike Ripley
Angels in Arms
(*St. Martin's—Jun.*)

Ann V. Roberts
Morning's Gate
(*Morrow—Feb.*)

Peter Rowland
The Disappearance of Edwin Drood
(*St. Martin's—Mar.*)

Greg Snow
That's All Folks!
(*Random—Mar.*)

Kate Sterns
Thinking About Magritte
(*Pantheon—May*)

Penny Sumner
The End of April
(*Naiad Pr.—Feb.*)

Minette Walters
The Ice House
(*St. Martin's—Jul.*)

Bridget Wood
Wolfking
(*Del Rey: Ballantine—Jul.*)

FRANCE

Gustaf Sobin
Venus Blue
(*Little, Brown—Feb.*)

HONG KONG

Henry Meigs
Gate of the Tigers
(*Viking—Mar.*)

IRELAND

Dan Binchy
The Neon Madonna
(*St. Martin's—Mar.*)

Thomas Hayden
The Killing Frost
(*St. Martin's—Mar.*)

Mary Maher
The Devil's Card
(*St. Martin's—Jul.*)

Gordon Thomas
Deadly Perfume
(*HarperCollins—Feb.*)

ISRAEL

Batya Gur
The Saturday Morning Murder: A Psychoanalytic Case
(*HarperCollins—Jun.*)

Steven Hartov
The Heat of Ramadan
(*HBJ—Jul.*)

Yehudit Katzir
Closing the Sea
(*HBJ—Apr.*)

ITALY

Donna Leon
Death at La Fenice: A Novel of Suspense
(*HarperCollins—Jul.*)

NEW ZEALAND

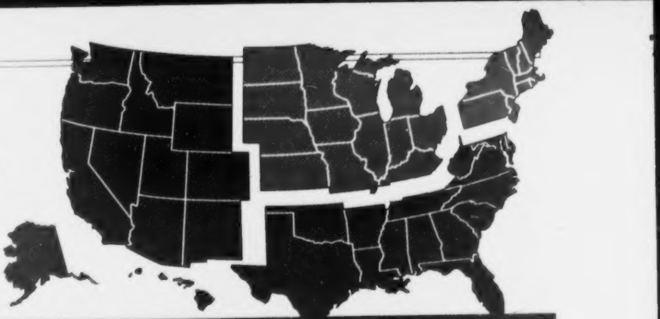
Jennifer Fulton
Passion Bay
(*Naiad Pr.—Jun.*)

RUSSIA

Fred Hiatt
The Daishi
(*Pantheon—Aug.*)

First Novels

Spring/Summer 1992



WEST

Dorothy Allison
Bastard Out
of Carolina
(*Dutton—Apr.*)
California

Noreen Ayres
A World the Color
of Salt
(*Morrow—Apr.*)
California

Cleve Boutell
A Certain Discontent
(*Naiad Pr.—Mar.*)
California

Virginia Bown
The Veiled Vixen
(*Walker—May*)
California

Bill Brooks
The Badmen
(*Walker—May*)
Arizona

Bebe Moore Campbell
Your Blues Ain't
Like Mine
(*Putnam—Aug.*)
California

David Cates
Hunger in America
(*S. & S.—May*)
Montana

Carol H. Clark
Decked
(*Warner—Aug.*)
California

Robin Cody
Ricochet River
(*Knopf—Apr.*)
Oregon

Harry Combs
Brules
(*Lyford Bks.:
Presidio Pr.—Jul.*)
Colorado

Terri de la Peña
Margins
(*Seal Pr.-
Feminist—Apr.*)
California

Dennis Foley
Long Range Patrol
(*Columbine: Fawcett:
Ballantine—Jun.*)
California

James Galvin
The Meadow
(*Holt—Apr.*)
Wyoming

Cristina Garcia
Dreaming in Cuban
(*Knopf—Mar.*)
California

Judith Garwood
Make Friends
with Murder
(*St. Martin's—Feb.*)
California

Philip Goldberg
This Is Next Year
(*Available Pr.:
Ballantine—Mar.*)
California

Robert Grudin
Book
(*Random—Aug.*)
Oregon

Echo Heron
Mercy
(*S. & S.—Mar.*)
California

Louis Kraft
The Final
Showdown
(*Walker—Apr.*)
California

Sara Lewis
Trying To Smile
(*HBJ—Jun.*)
California

Patricia McFall
Night Butterfly
(*St. Martin's—Aug.*)
California

Mark Medoff
Dreams of Long Lasting
(*Warner—Jun.*)
New Mexico

Sue Perry
Was It a Rat I Saw?
(*Perfect Crime:
Doubleday—May*)
California

Timothy Rizzi
Nightstalker
(*Donald I. Fine—May*)
Colorado

Rick Slone
Brown Shoe
(*Random—Jul.*)
Idaho

Martha Smilgis
Fame's Peril
(*Pocket Bks.—May*)
California

Liza P. Taylor
The Drummer Was
the First To Die
(*St. Martin's—Jun.*)
California

Carla Tomasco
The House of Real Love
(*Plume: NAL—Jun.*)
California

Derek Van Arman
Just Killing Time
(*Dutton—Jun.*)
Arizona

Charlene Weir
The Winter Window
(*St. Martin's—Apr.*)
California

Rebecca Wells
Little Altars Everywhere
(*Broken Moon Pr.—Aug.*)
Washington

NORTHEAST

Rilla Askew
Strange Business
(*Viking—Jul.*)
New York

**Robert Ballard &
Tony Chiu**
Bright Shark
(*Delacorte—Apr.*)
Massachusetts

Valerie T. Bayer
City of Childhood
(*St. Martin's—Mar.*)
Massachusetts

Bartle Bull
The White Rhino Hotel
(*Viking—May*)
New York

Mary Cantwell
An American Girl
(*Random—Jun.*)
New York

Benjamin Cheever
The Plagiarist
(*Atheneum—May*)
New York

John Clarkson
And Justice for One
(*Crown—Feb.*)
New York

Peter Conrad
Underworld
(*Poseidon Pr.:
S. & S.—May*)
New York

Thulani Davis
1959
(*Grove Weidenfeld—
Feb.*)
New York

**Michael D.
di Mecurio**
Voyage of the
Devilfish
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Pennsylvania

Annie Dillard
The Living
(*HarperCollins—May*)
Connecticut

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(*Pocket Bks.—Jul.*)
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(*Putnam—Apr.*)
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A Death in Paris
(*Little, Brown—Jun.*)
Connecticut

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Back in the Blue
House
(*Ticknor & Fields—
Mar.*)
New Jersey

Francisco Goldman
Long Night of the
White Chickens
(*Atlantic Monthly
Pr.—Jun.*)
Massachusetts

Olivia Goldsmith
The First Wives Club
(*Poseidon Pr.:
S. & S.—Mar.*)
Vermont

Jesse Green
O Beautiful
(*Available Pr.:
Ballantine—May*)
New York

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H.: The Story
of Heathcliff's
Journey Back to
Wuthering Heights
(*Pocket Bks.—Jul.*)
Massachusetts

Amy Herrick
At the Sign of the
Naked Waiter
(*HarperCollins—Feb.*)
New York

Andy Hoffman
Beehive
(*Permanent Pr.—
Apr.*)
Rhode Island

Siri Hustvedt
The Blindfold
(*Poseidon Pr.:
S. & S.—May*)
New York

Joseph Kaufman
A Good, Protected Life
(*Walker—Jul.*)
Massachusetts

Charles King
Mama's Boy
(*Pocket Books—
Apr.*)
New York

Phyllis Knight
Switching the Odds
(*St. Martin's—Jun.*)
Maine

Wally Lamb
She's Come Undone
(*Pocket Bks.—Aug.*)
Connecticut

Robert MacNeil
Burden of Desire
(*Nan A. Talese:
Doubleday—Mar.*)
New York

Jaime Manrique
Latin Moon in
Manhattan
(*St. Martin's—Feb.*)
New York

Cris Mazza
How To Leave a
Country
(*Coffee House Pr.—
May*)
Pennsylvania

G.F. Michelsen
To Sleep with Ghosts
(*Bantam—Aug.*)
New York

Miriam G. Monfredo
Seneca Falls
Inheritance
(*St. Martin's—Apr.*)
New York

Rick Moody
Garden State
(*Pushcart Pr.—Mar.*)
New Jersey

Barbara Neely
Blanche on the Lam
(*St. Martin's—Feb.*)
Massachusetts

Brian O'Doherty
The Strange Case of
Mademoiselle P.
(*Pantheon—Jun.*)
New York

Christine O'Hagan
Benediction at the
Savoia
(*HBJ—Jun.*)
New York

Susan Osborn
Surviving the Wreck
(*Holt—Feb.*)
New Jersey

Margaret Press
Requiem for a
Postman
(*Carroll & Graf
Pubs.—Feb.*)
Massachusetts

**Joshua Quittner &
Michelle Slatalla**
Shoo-Fly Pie To Die
(*St. Martin's—Mar.*)
New York

Martin Schecter
Two Halves of
New Haven
(*Crown—May*)
New Jersey

Anna Shapiro
So There!
(*Grove Weidenfeld—
May*)
New York

Jane Shapiro
After Moondog
(*HBJ—Jul.*)
New Jersey

Jennifer Shute
Life-Size
(*Houghton—Apr.*)
Massachusetts

Sarah Smith
The Vanished Child
(*Ballantine—Apr.*)
Massachusetts

Kelly Tate
The Lion's Share
(*Viking—May*)
Massachusetts

Lori Toppel
Three Children
(*Summit Bks.—Feb.*)
New York

Sandra Tyler
Blue Glass
(*HBJ—Apr.*)
New York

Carleton E. Varney
Kiss the Hibiscus
Good Night
(*Birch Lane Pr.:
Carol Pub. Group—
May*)
New York

Suzy Wetlaufer
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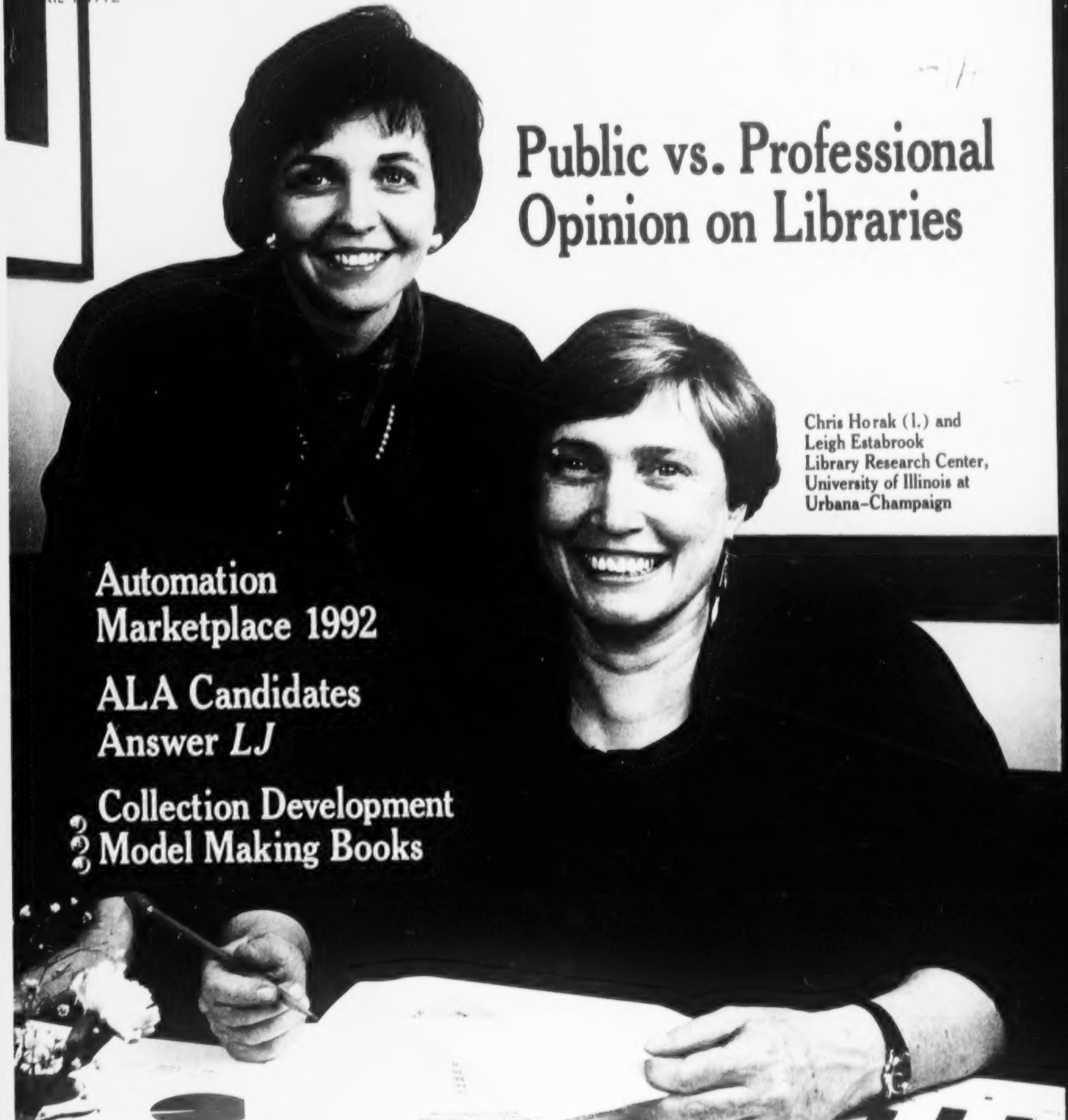

Public vs. Professional Opinion on Libraries

Chris Horak (l.) and
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Chris Horak (l). and Leigh Estabrook of UI's Library Research Center have been searching out library statistics for some time. Their recent poll on "Public vs. Professional Opinion on Libraries" is discussed on page 52.

PHOTOGRAPH BY GARY SIGMAN

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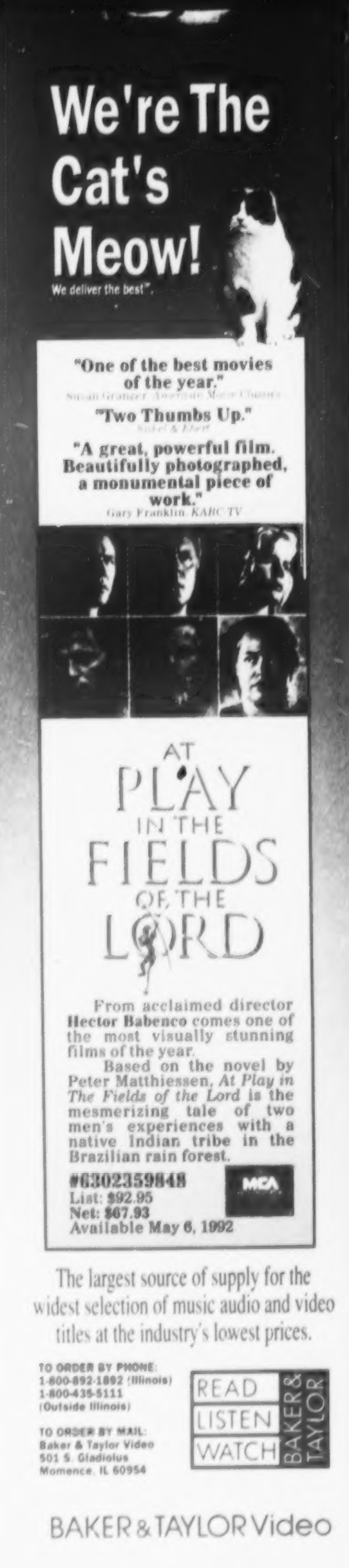

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Including small system vendors changes the way we compute the technology market. In fact, measuring the growth of automation means inventing a brand new ruler

Automated System Marketplace 1992

Redefining The Market Itself

By Frank R. Bridge

AS WE CONTINUE to examine the prevailing trends in library automation, the major emerging theme is that library automated system downsizing has continued and accelerated. Over the past several years, extensive information regarding the smaller system vendors had been difficult to obtain. Refusing to respond to previous surveys, these vendors justifiably complained that the earlier marketplace articles tended to concentrate upon the larger system vendors. However in this year's survey, the author reminded the smaller system vendors that their continued failure to provide statistics served only to insure their exclusion. With this gauntlet upon the ground before them, many of these vendors have finally joined the fray.

With the improvement in local area network (LAN) technology, along with more powerful microcomputers, smaller vendors can more effectively address the multiuser environment, i.e., scaling up their system sizes. Ironically, the same hardware performance gains have allowed many of the larger vendors to reduce the number of concurrent users and still provide a cost-effective system solution. The resulting overlap at the small end of the marketplace has caused a number of problems this year in defining the marketplace itself. Some of the larger vendors have grumbled that the counts during the past several years have included systems that were not "serious multiuser systems." The finger-pointing has been directed primarily at Dynix, whose increasing system sales counts were heavily based upon 286-, 386-, and 486-based microcomputer systems. But these Dynix systems run a form of UNIX, a multiuse. operating system. Moreover, like their larger counterparts, these systems support ordinary terminals connected via serial cabling in a star configuration and offer circulation control, online public access catalog, and a MARC-based cataloging interface, with software functionality virtually identical to the larger Dynix systems. Therefore, when compared to the larger systems, the only glaring difference is the number of concurrent users.

Once you have begun to describe the marketplace in terms of concurrent users, the inclusion of other vendor models, specifically LAN-based microcomputer systems, is a very short jump. Many of these vendors offer the identical modules described above. At similar terminal counts, they offer comparable, and sometimes lower, costs. The author cautions that there is often a trade-off for these cost

Frank R. Bridge is President of Frank R. Bridge Consulting, Inc., a library technology and management consulting firm based in Austin, Texas and one of *LJ*'s Managing Technology columnists. The author would like to thank Holly Gordon, former Automation Consultant, Texas State Library, for her assistance in tabulating the data for the charts and for editorial feedback in this article

Table 1: Market Share Total Installed Systems

Company	Worldwide				U.S.	
	All Years		1991		All Years	1991
	Total No. of Systems	Total No. of Systems minus 1-4 Terminals	Total No. of Systems	Total No. of Systems minus 1-4 Terminals		
Ameritech	78	78	0	0	78	0
Brodart *	3	3	0	0	3	0
CARL	27	27	16	16	27	16
Carlyle *	34	34	0	0	22	0
Centel	29	0	2	0	26	2
CLSI	309	298	1	1	240	0
CMDS	8	8	2	2	8	2
CoBIT	10	10	4	4	10	4
Comstow	54	31	6	4	52	5
CTB	1250	380	810	200	800	470
DRA	209	205	35	35	187	31
Data Trek	324	139	113	60	270	90
Dynix	743	546	265	173	383	135
Gateway	18	14	10	10	18	10
Gaylord	71	68	35	35	71	35
Geac	290	284	38	38	105	12
Highland	24	21	9	7	24	9
IME	1350	1042	206	164	51	26
Info Dimensions	223	0	33	0	138	16
INLEX	282	103	52	22	267	51
Innovative	251	249	55	53	234	50
Library Corp.	121	61	61	31	116	59
multiLIIS	144	129	39	35	19	7
NOTIS	159	159	14	14	147	14
NSC	20	17	5	4	19	4
Ringgold	33	8	5	3	32	5
Sirsi	144	121	62	50	132	52
UNISYS	37	37	4	4	25	3
VTLS	214	150	23	15	159	11
Total No. of Systems	6,459		1,905		3,663	1,119
Total No. of Systems minus 1-4 Terminals	4,222		980			

*** 1991 figures not available**

savings, but it is highly vendor-specific and requires careful buyer screening. For example, some small system vendors do an excellent job with installation, training, project management assistance, and problem diagnosis. Others provide little more than the software in a shrink-wrapped package and a wish for good luck.

How totals are calculated

Unfortunately, by making this transition to LAN-based systems, the charts traditionally included in this article now become highly distorted. Although the author could not confirm these figures from a user list, the vendor that clearly dominated the marketplace is Winnebago, with over 10,000 systems in place and 2200 systems sold in 1991 alone. Next comes Nichols with 1020 systems (also unconfirmed) and CTB with 810 systems, for a combined 1991 total market share of 92%. While the author does not claim that these products are identical to those of the vendors traditionally highlighted in this article, by including these "little system" vendors, one makes several very important points. First, in the 1-4 terminal market, a library will encounter Dynix, CTB, Winnebago, and many others now highlighted herein. Second, in terms of raw numbers, there are far more small libraries than larger ones. Third, this market is for real—growing and demanding. Therefore, the arbitrary exclusion of smaller systems, especially in light of their recent market impact and enhanced capabilities, is provincial.

However, expansion into the small system market carries considerable, steady, upward pressure on vendor services, and personnel costs are not nearly as flexible as computing hardware capabilities. This inelasticity reduces vendor profitability, a major business obstacle as the market evolves. Some of the vendors have made some interesting inroads and original solutions to these problems. (For additional information on this rather thorny issue, see "How Automation Vendors Are Coping with Change," p. 66.)

Unhappily, the continued growth of these new technologies has made the definitions of "system" and "terminal count" increasingly problematical for us as we attempt to devise some standard with which to measure the marketplace. ("On Calculating Market Share: A Definition," below, offers a more detailed explanation.) Therefore, depending upon one's definition of the marketplace, measuring its growth can result in wild statistical fluctuations. Based on the new definition of "system" counts regardless of terminal network size, the total no longer remains comparable to previous years. Table 1 reveals that worldwide, there were 6,459 systems sold by North American vendors. The "comparable" chart from last year's article indicated just 2,745 systems. While compiling this huge total may seem a little silly, Table 1 also provides the totals excluding those systems with 1-4 terminals. Even so, there were 4,222 systems installed, implying a net growth of 1,477 systems from the 1990 figures (54%). For those larger system traditionalists that still want a closer statistical comparison to previous years, we can omit 1991 sales of up to 16 terminals. The 1991 increase then becomes 961 systems, and this translates to a net market growth of 35%; last year's growth was 28%. The last of the complainers will argue that these totals reflect new vendors who were not part of the surveys in previous years. The author responds that this is a reflection of a living, changing marketplace where vendors and their system architectures come and go. In short, no matter how you look at it, there were a lot of small systems installed in 1991, which is the reason for including these sales in the article regardless of vendor. (For additional information, see "Automated System Marketplace 1991: Redefining System Frontiers," *LJ*, April 1, 1991, p. 50–62).

The bottom lines

Once again, the impact of these smaller systems on vendors' fiscal performance is difficult to judge, considering the scant information received. As in previous years, we bravely attempted to gather estimates of the vendor revenues. Just as consistently, only a few vendors have permitted us to publish this information, although most of them provided it. The conclusions? First, the library automation marketplace is a $253 million industry, based on library-system related revenues only, up from last year's $178 million. Fortunately, last year's publishable figures included the same five vendors as this year, and their totals are up a combined total of 27%. Still, with just five vendors willing to disclose financial information and the market becoming increasingly difficult to define and segment, the number of installations remains a primary measure.

U.S. vs. foreign

During the past year, many of the vendors have considered the foreign marketplace not only desirable, but necessary for their continued prosperity. The expansionist list grows ever longer. Some of the traditional ones include Dynix, CLSI, VTLS, and DRA. There are also foreign companies seeking inroads here, like multiLIS, Geac, and IME. But the roster grows longer with vendors like Sirsi, which opened an office in England, and Innovative, which sold two systems in Taiwan.

Table 1 presents the worldwide market shares for total installed systems for all years and the same totals for U.S. market shares, based on the newly expanded microcomputer system definition. Now begins the madness resulting from the overlap at the small system end. Worldwide for all years, the leaders are IME and CTB with 1350 and 1250 systems, respectively. The U.S.-only figures for all years change things very little, except that IME (51) is bumped completely out of the standings.

Perhaps the dust will clear if we omit the smallest systems, those with

On Calculating Market Share: A Definition

IN REVIEWING the results of the 1991 marketplace, readers should be aware of the following conventions used during the analysis. Because of the continually changing technology, some of the standards used in previous years have been altered, yielding considerable changes in the overall counts:

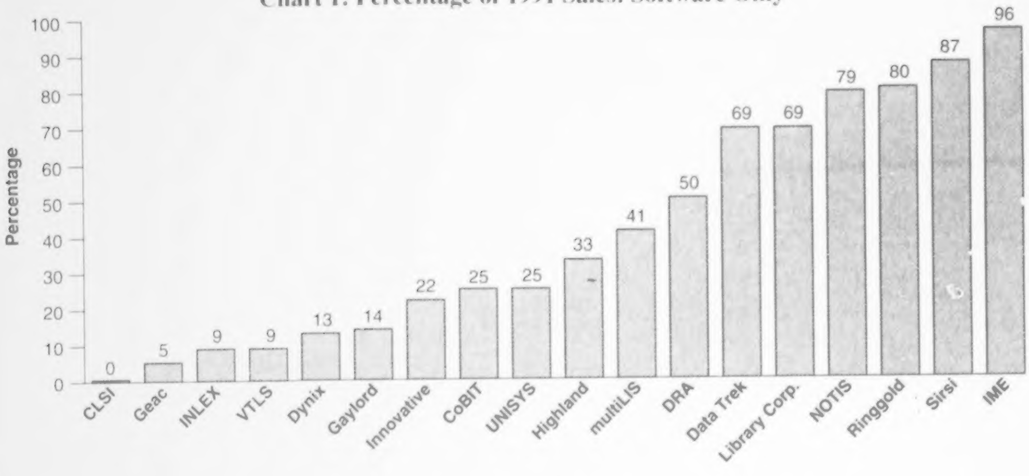
- When the author determined that vendors had counted libraries sharing a system as multiple installations, adjustments were made to vendor responses to determine individual installation sites, and then these sites were counted in our tallies.

- Although the use of stand-alone microcomputers by libraries for circulation, online catalogs, and for technical services activities is important, this article is focused on multiuser, integrated library systems. While the intent of this article is to exclude single-user, single-module, stand-alone systems, many of the microcomputer-based systems offer multiuser systems with modules similar to the larger minicomputer-based multiuser systems. Therefore, the author has included multiuser microcomputer systems in this year's survey.

- With the growth of microcomputers and their connection to LANs, the definition of "terminal count" also has become very complex. There used to be a one-to-one correspondence between terminal counts and concurrent users. This is no longer true. Systems can contain "dedicated" terminals, which can be either dumb terminals or microcomputers serving as terminals at least 95% of the time. Systems also have dedicated dial-up ports, which are essentially the same as dedicated terminals. Lastly, systems also can have nondedicated ports. These are typically LAN ports through which potentially thousands of users could access a system. If there were software-driven limits to LAN access, these numbers were used as "terminal counts." If not, the vendors were asked to estimate the total user count by taking a 5% ratio of the LAN-connected terminals.

- As in last year's article, certain vendor totals may look exaggerated or incorrect. Please note that the author adjusted the total installations reported based upon the number of systems installed and the number of systems "removed" (i.e., maintenance no longer being paid) as libraries grew into their second and third automated systems during 1991. Numbers should now reflect the current user base.

Chart 1: Percentage of 1991 Sales: Software Only



Figures include typical turnkey sale and joint venture sale vendors (where hardware manufacturer jointly participates in proposing the system)

CHARTS BY ANNABELLE CARTER & NANCY SIMMONS

four or fewer terminals. At least we are now examining the overlap of multiuser system types, either LAN-based or star-cabling based. Here, the worldwide leader is still IME, with a user base of 1,042 systems.

Software-only sales

Last year we reported that software-only sales percentages were generally on the rise in the minicomputer market. This year, although there were a couple of vendors showing some software-only sales gains percentages (Gaylord, Geac, and Dynix), all others showed declines. This may be attributable to increases in smaller system sales in the minicomputer environment, where libraries prefer a more protective, turnkey arrangement. Ironically, traditional microcomputer library system procurements were virtually always software-only sales. But as microcomputer-based systems upsize, we have begun to find occasional turnkey transactions, just like their bigger minicomputer brothers. For example, both Ringgold and Data Trek have been considered as microcomputer-based systems. However, their 1991 software-only sales were 80% and 69%, respectively.

With software-only procurements, many vendors had shown skittishness regarding system performance and reliability. This has changed considerably, although it is very vendor-specific. Usually these assurances require the library to allocate very specific computing resources, including disk space, main memory, terminal counts, and computing power.

Academic libraries

Chart 2 illustrates the worldwide market shares for academic libraries for all years and for 1991. Because of the enlarged scope of the article, the numbers of systems sold in the academic arena for all years (1,573 systems) and for 1991 (289) are not comparable to last year's tally. However, by retrieving the 1990 figures (154 systems installed) and comparing them with the same vendors for this year (170 systems installed), we find a 10% increase. Considering the 1991 economy, this is a pleasant surprise. For those readers who like head-to-head tallies, it appears that Innovative strengthened its grip on the academic marketplace during 1991. Although its worldwide all years figures trail behind IME (289 to 199), Innovative still leads the industry this year with 43 sales. Considering that Innovative managed to counter the downsizing trend by selling 26 systems in the 32-125 terminal range, this is a significant accomplishment. On the strength of its European performance, IME was second in 1991 with 42 systems. DRA also had a very good year in the academic market, with 24 systems, 15 in the 33-125 terminal range.

Public libraries

A few surprises occurred in the public library marketplace, mostly resulting primarily from the new system definitions. Dynix surged into the lead in all-year worldwide installations with a total installation base of 264 public libraries. However IME, a newcomer to the article but founded in 1984, barged into second place with 240 systems. This bumped CLSI into third place with a respectable 208 systems, most of them medium-sized and larger. Other public library smaller system vendors enjoying some new exposure include CTB (100) and Library Corporation (63). All year totals aside, it is the 1991 efforts that clarify where the public library business is really being done and hints at future trends. Disregarding Winnebago, Follett, and Nichols, whose huge statistics are either unverified or missing, Dynix is out in front of the pack with 67, followed by Library Corporation with 39, and newcomer IME with 37.

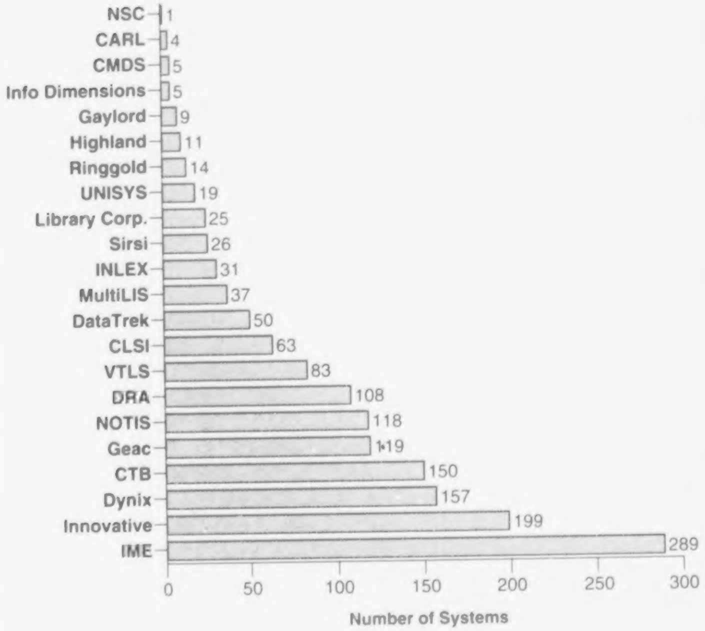
Very small and very large systems

Table 2 is rather special, as this year we wanted to segregate the business in very small systems, those with 1-4 terminals. It is very revealing. Winnebago, Follett, and Nichols notwithstanding, CTB is essentially off the scale, with 610 of its 810 systems falling into this marketplace niche. Moving up in system size to the 5-16 terminal range, the leader remains CTB with 155 systems. Another step upward in system size for 1991 examines the medium-sized market (17-64 terminals). The more familiar names begin to proliferate in this difficult and competitive arena. As the system size rises, the overall sales numbers really begin to fall, reflecting the extensive penetration into this marketing group.

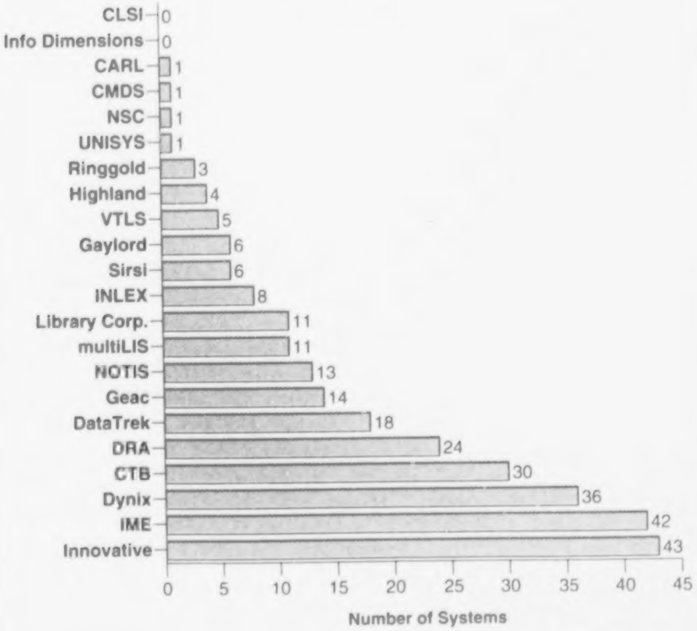
The new system market in very large systems has begun to dry up, but the next several years should prove in-

Chart 2: Worldwide Installations in Academic Libraries

All Years



1991 Only



Variance: +/- 1.0%

teresting. These rare and lucrative accounts will be needing upgrades or replacement, and this will provide additional opportunities for vendors attempting to invade each other's turf. As a prelude, behemoth system vendor CARL had ten such installations in 1991, mostly attributable to migrations from Utlas systems. In the meantime, there were only a handful of the big ones installed this past year. If the reader is wondering about NOTIS, the company's 1991 totals are missing from the chart because the data were not available at press time.

Vendor profiles

Remaining mindful of the radical change in the scope of marketplace coverage this year, let's examine the individual track records for the vendors during 1991.

Ameritech Information Systems

This Baby Bell company entered the library marketplace in 1990 after acquiring OCLC's Local Systems Division. In 1991 the firm continued its pattern of library system vendor acquisitions, first by purchasing NOTIS Systems, Inc. and then announcing in early 1992 its intent to purchase Dynix as well. (See Dynix and NOTIS profiles below.) The Ameritech takeovers have brought about considerable confusion regarding the fate of the LS/2, LS/2000, SC350, and ACQ350 systems. Moreover, Ameritech's survey response created additional questions. On the one hand, the company reported plans to continue working on releases for the LS/2000 and both of the 350 systems. Next, Ameritech indicated that it was no longer marketing or selling the packages. Also, there was no mention of the fate of the Tacoma Public Library's Alice-B system, a CD-ROM/minicomputer-based hybrid, which Ameritech was positioning for high-transaction libraries in 1991. Last year Ameritech reiterated its commitment to the library marketplace. This year the vendor provided a more precise definition of this commitment—through 1992 for the LS/2 systems and through July 1995 for the LS/2000 and and 350 systems. Apparently with the NOTIS and Dynix acquisitions, the long-term commitment seems more open-ended in this direction.

AutoGraphics

AutoGraphics is already familiar to librarians as a retrospective conversion vendor. The company's primary product is a CD-ROM catalog, but in 1990 the company acquired the LIBerator microcomputer-based library automated system and renamed it SLiMS (Small Library Integrated Management System). As part of its 1991 efforts, AutoGraphics began recoding SLiMS so that the MARC-based records on its CD-ROM catalog could be imported directly into SLiMS. Interestingly, this downloading capability includes a batch function that permits a complete file dump of the library's holdings from the CD-ROM union catalog. This capability carries rather far-reaching implications for rapid creation of varying online subsets of library groups and for copyright issues. Plans for 1992 include a new SLiMS release and an increase in user base.

CARL Systems, Inc.

Traditionally, our survey instrument has not portrayed CARL very well and the 1991 reckoning provided equally nebulous results. For example, CARL had a 120-terminal expansion of its Arizona State University site to include Northern Arizona University. However, by our standard definitions, this upgrade did not count as an "installation." Fortunately, CARL can take some solace through its absorption of the Utlas T/50 system support operations. Because CARL and Utlas function upon the powerful Tandem computer series, the 1991 CARL user list now includes seven sites converting from Utlas to CARL and a total of 11 new Utlas sites for the year. CARL is a big-system vendor only; the entire user base of just 27 systems supports 4,976 dedicated terminals, an average of 184 per system. There were only 24 systems sold in 1991 worldwide in the 200-plus-terminal range, and CARL was involved with ten. Clearly, the company has been successful in bucking the small system trend, and it has done this by creating and marketing some unusual products. This year's accomplishments include its Uncover2 document delivery service, an adjunct to its successful Uncover serials title page index. Other 1991 accomplishments include a cataloger workstation, full Boolean search capability, and Gateway to Medline via Paper Chase. The company's 1992 goals include smooth migrations for the Utlas sites to the CARL software, expansion of the Uncover and Uncover2 database, and development of graphical user interfaces (GUI's) to the public access catalog. CARL continues to be a very big "little guy" in the world of large system vendors.

Centel/Datalib

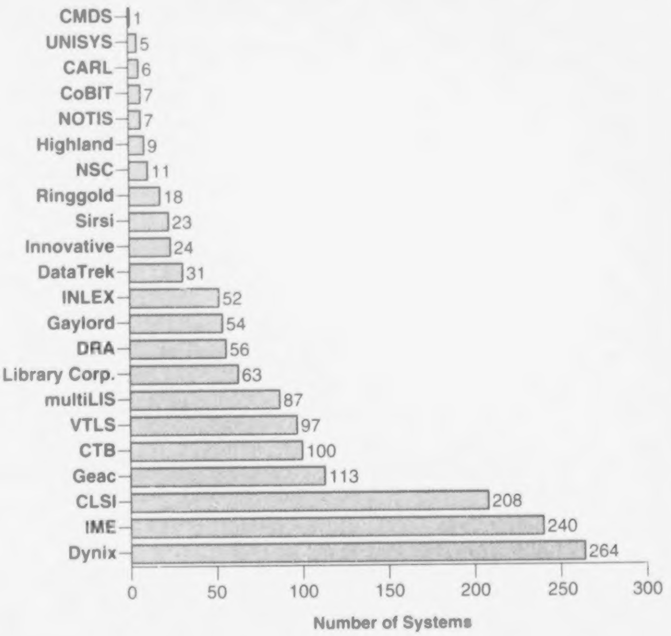
With its sales of two systems in 1991, a small amount of new information became available. This software-only vendor began in the late Seventies by providing software to support the acquisitions functions of several federal libraries. Since that time, the product has expanded into a fully integrated online system that operates on existing host computers. The company's clientele now consists mainly of special libraries in the corporate setting. The company met its planned 1991 goals by furnishing Release 9.7 in March and a patron request software enhancement. Its 1992 goals include a PC-based GUI and user documentation enhancement.

CLSI

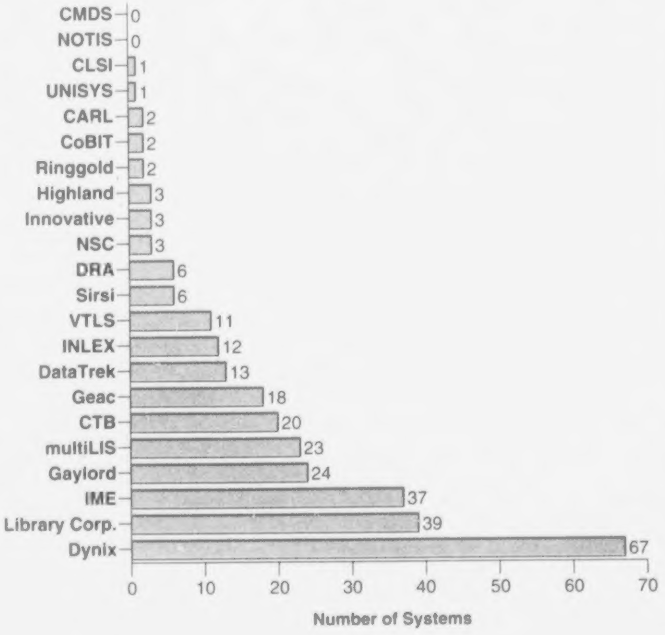
Although CLSI continues to work on customer support and has received some positive feedback from its clients, its user base has dwindled somewhat, from 335 sites to 309. However, CLSI reported 53 system

Chart 3: Worldwide Installations in Public Libraries

All Years



1991 Only



Variance: +/- 1.0%

upgrades, implying a substantial percentage of its user base is committed to remaining with the company. CLSI accomplished several important goals in 1991, including a strategic alliance with IBM to offer libraries its UNIX-based R/6000 computer platform solutions. This machine has been very popular with many of CLSI's primary competitors and is therefore an interesting offering for future sales and for expansion into the competition's user base. Other completed 1991 goals include the total rewriting of the OPAC CL-CAT Plus using a user-friendly interface. Like its competition, the company introduced a journal citation module for access to a variety of indexed databases. One 1991 goal was postponed until 1992: the general release of the LIBS100plus automated system. It appears that this goal will be met. Other 1992 plans include software-only solutions for libraries with installed UNIX-based systems, additional strategic alliances with computer companies offering UNIX-based platforms, and the creation of a separate division for bibliographic and authority control services for CLSI and other users.

CMDS

Although last year's survey included very little specific user information, this year's response was a bit more revealing. We can confirm that this software-only vendor concentrates primarily on the academic sector of the market; its library automation system is part of a larger package designed to support the administrative infrastructure of smaller colleges, universities, and school districts. Its products are mainly tied to the IBM System 36 and AS/400 platforms. Accomplishments for 1991 include the multiple-site installation at the Vigo County School Corporation (Terre Haute, IN) and the migration of two non-CMDS customers. The company's 1992 goals include a users group meeting at ALA and a marketing focus on its existing customers: installed AS/400 systems and two-year academic libraries. With a general industry move to some form of UNIX and the competition becoming increasingly intense in the smaller academic market, the company's fortunes should prove interesting to follow.

CoBIT

CoBIT was formed in 1989 after completing the purchase of The Library Machine (TLM) from OHIONET. The company focuses mainly on public libraries and offers a cooperative approach to software licensing. Because CoBIT users become owners of this not-for-profit corporation, the company claims that its members thereby have a strong commitment to its vitality. Accomplishments in 1991 include a complete revision of the circulation module to include multiple-user sites, each with distinct parameter-driven circulation rules. The company also successfully merged its user database for inclusion of the TOLEDO CD-ROM union catalog for distribution in early 1992. The company expanded its user base from six to ten users. Goals for 1992 include full implementation and revision of its Keyword/Boolean software into its OPAC and improvements in authority control displays.

Comstow Info Svcs./BiblioTech

Comstow, focusing mainly on corporate and government libraries, had another successful year in 1991. This software-only vendor had previously been dependent upon the VAX/VMS environment, but its products were successfully ported to UNIX platforms last year. The VAX product also enjoyed considerable revamping in 1991, including substantial improvements to the acquisitions-accounting module, E-mail in the OPAC, pop-up windows, and support for the OCLC Prism interface. The company's hallmark appears to be the integration of special library databases with other company/institutional applications. In that vein the company completed an interface to the Paralog TRIP full-text retrieval database management system; an interface to Microsoft Word to link citations to full-text; and a link to graphic image files using the DEC CDA viewer. Company plans for 1992 include multiple full-text retrieval options to documents and articles associated with OPAC citations, implementation of electronic data interchange (EDI) interfaces, and enhancements to security control, a popular feature for the company's corporate/governmental user base.

CTB

CTB, the vendor of the Columbia microcomputer-based library automated system, is a newcomer to the vendor profiles section. This software-only product includes circulation, OPAC, cataloging with MARC-based interface, serials control, and acquisitions control. Although the company imposed considerable restrictions on the dissemination of its user base information, it grew by expansion into the school library market, with 750 packages sold, 610 of which fell into the 1-4 terminal range. Although CTB is one of those vendors that influenced the chart distortions at the lower end, there were still some 115 sites installed in 1991 with 5-8 terminals and 85 in the 16 terminal and above range. The company's primary accomplishment for 1991 is its selection by the Tucson, Arizona school district and the Department of Defense Dependent Schools. Also, the 1991 software release includes a bi-directional union catalog so that revisions and updates can be made either at the local site or the catalog site. The 1992 goals include substantial revisions of acquisitions and serials control.

Data Research Associates (DRA)

DRA again had a very good year, especially in the academic market, where 68% of its 35 sales occurred. This year DRA soft-

Table 2: Number of Vendor Installations Worldwide

Company	Very Small Systems (1-4 terminals)		Small Systems (5-16 terminals)	
	1991	All Years	1990	All Years
CARL	—	—	—	—
Centel	2 *	29 *	—	—
CLSI	0	11	0	65
CMDS	—	—	0	6
CoBIT	—	—	—	—
Comstow	2	23	4	27
CTB	810	610	155	290
Data Trek	53	185	57	134
DRA	0	4	5	43
Dynix	92	197	92	256
Gateway	0	4	7	9
Gaylord	0	3	23	46
Geac	0	6	10	33
Highland	2	3	5	18
IME	42	308	96	833
Info Dimensions	33 *	222 *	—	—
INLEX	30 *	179 *	7	26
Innovative	2	2	15	102
Library Corp.	30	60	28	56
multiLIS	4	15	31	98
NOTIS	—	—	0	2
NSC	1	3	2	10
Ringgold	2	25	3	6
Sirsi	12	23	40	74
UNISYS	—	—	—	—
VTLS	8	64	4	43

* information assumed, figures not available from vendor

ened its campaign for openness in vendor financial information, perhaps because of steadfast marketplace resistance by its competition. This persistent lack of information is unfortunate for the general user community, because one of the most important system evaluation areas is vendor viability. Known for its adherence to computer and library automation standards, this off-the-shelf DEC/VMS system vendor listed 17 standards with which it complies, far too many to incorporate into the applicable tables in this article. Although 1990 found DRA beginning to market in the smaller libraries, this trend accelerated in 1991 with five systems in the 9-16 terminal range and 11 more in the 17-32 market. Other 1991 DRA accomplishments include upgrades to its cataloging, circulation, acquisitions, serials control, local periodical indexing, offline circulation, reserve book room, and report writer products. DRA also hired an international business manager and opened offices in Singapore and Australia. It's important to note that as the U.S. marketplace becomes more crowded, this international thrust will become more common. DRA's plans for 1992 include the expansion of its nationwide network (DRANET), a self-charge station, book reviews in its PAC, and a Z39.50 intersystem connection product.

Data Trek, Inc.

Another newcomer to the vendor profiles section, Data Trek has been traditionally considered "just another small microcomputer-based software package." However, the company offers a DEC/VAX-based product with circulation, OPAC, acquisitions, serials control, and a MARC-based cataloging interface. The product line also contains two LAN-based PC systems—the abbreviated-MARC Manager series and the fully MARC-compatible Professional series. Both offer circulation, OPAC, cataloging, and MARC interface, with the professional series adding modules for serials and acquisitions control, AV handling, and corporate documents. Moreover, there is a version for Macintosh users. Overall, the company listed 113 installations in 1991, and 52 of them were in special libraries. Even when one excludes those systems with terminal counts of 1-4, Data Trek still tallied 60 systems. The company's 1992 goals include the release of serials and acquisitions modules for its Professional series, a Windows version of its OPAC, and updates to its VAX and Macintosh software packages.

Dynix, Inc.

Dynix accelerated its efforts in the small system market during 1991, meeting its stated goal for broad expansion into this area. The system sales tabulation for Dynix is 265, up from its 171 in 1990. The terminal count charts tell the tale of the profound marketplace shift in system downsizing. In the very small system arena (1-4 terminals), Dynix sold 92 packages. (Any direct comparison of Dynix's total to other 1-4 terminal vendors like Nichols [900 systems] and CTB [810 systems] is left to the reader.) In last year's article we reported that 43% of Dynix's new systems contained eight or fewer terminals. This year it is 61%. Expanding the terminal counts to include 1-16 devices, this accounts for fully 70% of Dynix sales this year. To meet this rising demand, Dynix introduced its Scholar system in 1990, redesigning the software to run a form of UNIX on 386- and 486-based workstations in the K-12 environment. During 1991 the company opened its standard Dynix package to these same platforms, and its small system positioning was complete. The Dynix Marquis system, another 1990 rollout designed to drop into an existing LAN, had just two sales in 1991. However, Marquis reflects an ever-growing trend toward more distributed computer networks, and its 1992 fate should prove lively to watch. One of the major topics of conversation at ALA's Midwinter Meeting in January was the sale of Dynix to Ameritech. While speculation abounded, there was really very little concrete information at that time regarding Dynix's future. At the very least, Ameritech will bring considerable financial and technical resources to bear upon the company, especially in the area of data communications. With the increasing emphasis on system connectivity, this type of parent company could bode well for Dynix's future. In other 1992 not-so-surprising goals, Dynix plans for a smooth integration with Ameritech, more migration business from other vendors, expansion of its overseas operations, continued expansion in the school market, and, lastly, to move into a new headquarters building.

Gateway Software Corporation

Gateway, based in Montana, specializes in software-only sales to school districts, where library automation software is usually a subsystem to the school district's administrative package. Its installations in 1991 grew from eight sites to 18. Gateway's library product functions on the IBM AS/400 platform. Achievements in 1991 include the ability to create MARC records and to use local holdings tags to create item records. The company boasted its largest system installation, with 25,000 students, 30 schools, and 400,000 bibliographic records. Goals for 1992 include its first user group meeting and the development of a media booking module, deferred from its 1991 schedule by user request.

Gaylord Information Systems

Once again, Gaylord's GALAXY product did well in 1991, jumping from 36 installations in 1990 to a total of 71 in 1991. The DEC/VAX-based product has generally matured, with the completion of its acquisitions and serials control modules and its new networking software link to CD-ROM systems and other external databases di-

	Mid-Sized Systems (17-64 terminals)		Large Systems (65-200 terminals)		Very Large Systems (201+ terminals)	
	1991	All Years	1991	All Years	1990	All Years
	—	—	6	14	10	13
	—	—	—	—	—	—
	0	148	1	70	0	15
	2	2	—	—	—	—
	4	8	—	—	0	2
	0	4	—	—	—	—
	45	84	0	6	—	—
	3	5	—	—	—	—
	22	106	7	45	1	11
	48	193	25	82	8	15
	1	2	2	3	—	—
	11	21	—	—	1	1
	17	78	9	161	2	14
	2	3	—	—	—	—
	68	208	0	1	—	—
	—	—	—	—	—	—
	10	57	5	19	0	1
	30	120	8	28	0	1
	3	5	—	—	—	—
	4	24	0	6	0	1
	0*	38	0	61	0	44
	2	7	—	—	—	—
	0	2	—	—	—	—
	6	39	4	9	—	—
	1	10	2	11	2	16
	5	67	6	27	0	3

How Automation Vendors Are Coping with Change

In preparing this year's survey answers, vendors had to suffer through several essay questions that focus on current and emerging marketplace trends and problems. Because the answers tend to be views from the corporate top, the responses involve not only vendor marketing staff but also the executives, and some vendors gave very perceptive answers. Like the roads in the Roman empire, the questions all lead back to the growth of smaller systems serving smaller libraries.

The profit squeeze

Vendors have seen their profits squeezed between the intense competition, the reduction in hardware costs, and the escalating costs for service. We asked the vendors to discuss how they were meeting this challenge. The smaller system vendors almost universally state, "What problem? We've been doing this all along." However, Michael George of AutoGraphics answers by indicating, "our system support infrastructure is already well established to maintain a customer base throughout the United States and Canada . . . . Librarians automating today are involved and knowledgeable and know what they want to accomplish, although, perhaps, not how. The right tool is all that is lacking."

A larger turnkey vendor, like CLSI's Richard Porter, brings a slightly different perspective in that the "right tool" may not yet have arrived: "some date in the future, selective library functions can be provided to libraries in the form of 'shrink-wrap' software licensing, but CLSI does not see this happening in the near future. Even small libraries will continue to want flexible parameter-driven systems—contrary to the control needed by most shrink-wrap software strategies."

Data Trek's David Cheatham comments, "As microcomputers have become more and more of a commodity item, the reliability has increased and the cost of servicing has decreased. The manufacturer's mean time between failures we sell is now at 150,000 hours—that's 17 years if you left the computer on every hour of every day." But the hardware is only one system component; INLEX's Jan Neal elaborates. "High-quality, stable software in both the micro and the mini environments is the secret to controlling support costs . . . . Enhancing the content and frequency of customer training opportunities reduces overall need for support."

System performance guarantees

Moreover, in the small terminal count market, many libraries have never automated. They often lack local expertise in system implementation and therefore must turn to the vendor. Although system costs may hint at the quality that the small library can expect, performance guarantees can be very elusive. These include functionality (Does the system perform as promised?), reliability (How often does the system fail?), response times (How swift is system throughput?). In preparing this question, the author had hoped that some of the smallest system vendors would provide some additional insight into their performance guarantees, but we generally received noncommittal answers like "we fix the system as soon as possible." The larger ones furnished more concrete answers. CLSI maintains a complete onsite system testing lab. Dynix owns a company that performs computer simulations for system performance testing. NOTIS, INLEX, Innovative, and DRA typically agree to such standards even in software-only sales as long as adequate resources are allocated. But Gaylord's Charles Farley had the most interesting performance guarantee. "If for any reason, you are not completely satisfied with your GALAXY System, return it within 180 days of installation, and we'll return your money. No questions asked."

> Smaller systems serving smaller libraries account for the market's growth

UNIX, the only (?) operating system

There has been a great deal of discussion regarding the future of the UNIX operating system and what it means for library automation. The vendors are generally divided into three camps. The first is the UNIX-based group, who have generally been providing the message "UNIX is the wave of the future, and we are the solution to the open-system issue." It is true that such software packages can be fairly easily ported among UNIX machines. This often provides considerable hardware flexibility and improved cost/performance returns. Nevertheless, the open system environment (where disparate systems talk transparently to each other) is growing increasingly dependent upon library application software enhancements, not operating systems. Thus for open systems, the library system buyer should be looking for emerging library software compliance with the Z39.50 standard. The second group contains the vendors whose systems run under different, often proprietary, operating systems. Their rallying cry is "UNIX is not an operating system. There are many flavors of UNIX out there, often customized for a particular computer platform. You can't move UNIX-compatible software around like MS/DOS packages." This is also true. While the difficulty depends upon the vendor and the change of computer, a UNIX-based package must be carefully tuned to run reliably on another UNIX-compatible machine. The third group is an offshoot of the second. Their approach is "We'll rewrite our software to run on UNIX-based machines." Carl Grant of DRA states, "UNIX in its 200+ forms offers no more assurance of portability than the so-called proprietary systems. The portability will be achieved when the POSIX operating system arrives . . . . Until then true machine independence is largely 'smoke and mirrors.' " Keith Wilson of Dynix indicates, "About three years ago we moved to UNIX, which gave us and our customers even more choices . . . . We believe that there is even more to this principle than simply a choice of computers. Our organization . . . is more adaptable and is ready for change."

rectly from the OPAC menu. The company originally began the Galaxy effort by focusing on the small library market. However, its broad-based functionality has been marketable in the larger system arena as well, as Gaylord installed a 215-terminal network in New York State. Data conversion continues to be a major component of Gaylord's business. The company expanded its CD-ROM-based SuperCat cataloging system to include the entire Audio Visual Access Catalog, the National Library of Medicine's catalog, and the Cassidy Cataloguing Services' Law and Business catalog. The company's modest 1992 goals are having the happiest customers in the industry, the most advanced integrated library system in the industry, and being number one in the U.S. industry.

Geac Computer Corp. Ltd.

Despite repeated attempts to obtain a user list from Geac, it never arrived. Thus for the purposes of this profile, the company's 1991 sales figures remain unverifiable. However, during 1991 Geac claimed 38 new systems of varying sizes. One of Geac's 1991 major accomplishments was its campaign to donate 20 library software systems to libraries that had a special vision of the library and its role in society as an information center. Also, following a rather ubiquitous vendor trend, Geac introduced its graphical user interface for its proprietary GLIS system. Other accomplishments in the software arena include a multilingual user interface (eight languages including Russian) and networked interfaces to databases like ABI/Inform and Business Dateline. According to the company, its financial stability improved and 1991 earnings increased 14% over its prior fiscal year. At the beginning of 1992 the company introduced Release 4.0 for its Advanced product, with new modules for physical inventory, materials bookings, gateways to external databases, and circulation backup. Other 1992 goals include additional journal citation indexes and joint projects to facilitate physically challenged patrons. With the service implications associated with the Americans with Disabilities Act, vendors and clients might consider system enhancements like large-type video displays, special keyboards and other input devices, and audible system output capabilities.

Highland

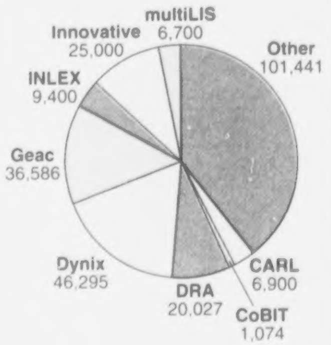
Highland Library Systems, Inc. is another newcomer to this article. With a total user base of 24 libraries, the company claimed nine system sales in 1991. Functioning under the Pick operating system, the software package has the flexibility to run on most PC and PS/2 compatibles, as well as many other Pick and UNIX-capable platforms. The company's primary 1992 goal is to restructure its software to accommodate distributed databases like those that might be found in a regional library system.

IME

Although the London-based company was founded in 1984, Information Management & Engineering Limited (IME) is yet another rookie to the parade of vendor profiles for 1991. Operating in both the UNIX and the MS/DOS environments, the company claims a simple transition path between these two operating systems and the ability to function on all standard LAN and network environments. Both product versions include the same modules—OPAC, circulation, cataloging, acquisitions, serials control, interlibrary loan, and report generation. Running counter to the world market trend where U.S. vendors have spread their wings abroad, this foreign company and its U.S. affiliate have taken advantage of stateside opportunities. The company's 1991 efforts have been significant, with 26 U.S. system sales. However, its major successes have been on the European continent, where it sold 164 systems last year. The company apparently prefers a software-only sales arrangement, with 97 percent (198 of 206) of its 1991 contracts following that pattern. Matching the general system downsizing trend, fully 97 percent of the IME 1991 sales had 32 or fewer terminals, with sales fairly evenly split among the four lowest terminal ranges. The company's 1991 accomplishments include its 14th language interface translation, and the establishment of a Consultancy and Project Management Department. Especially in the smaller library environment, these services are becoming critical to project success and are extremely welcome. IME's 1992 goals include a new software release, which is promised annually as a company policy. With its flexible line of hardware platform choices, IME should be an interesting company to follow during the coming year.

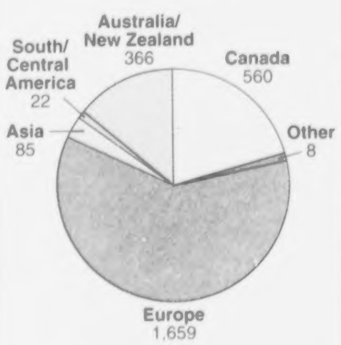
Chart 4: Estimated Library Systems Revenues of Automation Vendors 1991

(In Thousands of Dollars)



Total Revenues: $253,423
Variance: +/- 5.0%

Chart 5: Total Foreign Installations by Geographic Region



Variance: +/- 1%

Information Dimensions

Information Dimensions is another software-only vendor making large gains in the special library segment of the marketplace in 1991. Its installations number 33, with the United States, Canada, and Europe the company's biggest (and only) audiences. Information Dimensions successfully migrated its user base to new Sun, HP, and CDC UNIX-based platforms and introduced two new UNIX versions for the popular DEC ULTRIX and IBM R/6000 lines. Like several other vendors, Information Dimensions signed an agreement with UMI to market ABI/Inform. The coming year will bring continued international efforts in marketing its software and in handling MARC records.

INLEX

INLEX is another vendor that recognized the importance of the growing small-library market. Late in 1991 the company purchased The Assistant, an MS/DOS microcomputer-based system. Therefore, with its dual-product line of durable Hewlett-Pack-ard minicomputer and PC-compatible software packages, the company appears poised to straddle the large and small ends of the marketplace spectrum. In 1991 INLEX sold 53 systems, fairly evenly divided among their two offerings—22 for the INLEX/3000 package and 31 for The Assistant. Again this year, virtually all of these systems were sold in the United States, with just one going to Canada. Although almost all of the companies had difficulty in finding large system customers, INLEX managed to sell two systems in the 126-200 terminal range, which was about 9% of the INLEX/3000 sales effort. Terminal counts for The Assistant are more difficult to ascertain, as the company did not closely track these statistics, a trend that will probably increase as LAN-based systems proliferate. The 1991 accomplishments include acquisitions module enhancements for electronic ordering from Ingram and BNA and a joint project with its users group to establish an electronic bulletin board. Other software efforts include access to periodicals databases like IAC and Wilson. With the general marketplace tendency toward unmodified, off-the-shelf equipment, a major hardware counterdevelopment is the INLEX 200

Series terminal. With its custom chip, the terminal sports its own ALA character set, along with other noteworthy features like adjustable time-outs, a special key-disabling menu, screen saver, pop-up calculator, and INLEX-customized keys. Goals for 1992 include enhancements to the Reserve Book Room Module and additional efforts to integrate a CD-ROM optical jukebox.

Innovative

Innovative Interfaces enjoyed an outstanding year in 1991. The company generally reflected the downsizing market trend by selling ten of its 55 systems in the 1-8 terminal range. However, Innovative performed remarkably well by moving 26 systems in the increasingly rare 33-125 terminal market segment. Revenues were up 25% from 1990, hitting an all-time high of $25 million, a rather difficult accomplishment in a lackluster economy. Other 1991 successes include the OhioLINK project, a contract for 18 systems, and a statewide union catalog. Bucking the general system downsizing trend, this network is slated for 2500 terminals, with statewide online requests for any book in the database. Its two systems in Taiwan fully support the Chinese-Japanese-Korean (CJK) character set throughout, in-

Table 3: System Interfaces

Vendor	OCLC	RLIN	WLN	Super-Cat	Biblio-File	Auto-Graphics	Marcive	Baker & Taylor	Brodart	Laser-Quest	Other Interface
AutoGraphics	√	√	√	√	√	√	√	√	√	√	
CARL	√	√	√	√	√	√	√	√	√	√	
Centel/DataLib	√	√									
CLSI	√	√	√		√	√	√(T)	√(T)	√	√	LSSI; PICA (T); MITINET (PC)
CMDS	√				√						Export from Mandarin
CoBIT	√				√			√	√		
Comstow	√				√		√				Any USMARC will be developed
CTB	√	√	√	√	√	√	√	√	√		
Data Research	√	√	√	√	√	√	√	√	√		DRANET
Data Trek	√	√	√		√		√	√	√	√	MITINET, Bibl Nationale France
Dynix	√	√	√	√	√	√	√	√	√	√	Various French, British, Australian
Dynix Marquis	√	√	√	√	√	√	√	√	√	√	Any w/MARC communications
Gateway	√		√		√	√	√	√	√	√	Any USMARC or MicroLIF
Gaylord	√	√	√	√				√	√	√	
Geac Adv. GLIS	√	√	√	√	√	√	√	√	√	√	
Highland	√			√(Ds)	√(Ds)	√(Ds)	√(Ds)	√(Ds)	√(Ds)	√(Ds)	
IME	√	√			√		√			√	LIBRIS, PICA, BLAISE, SABINET
Info Dimensions	√	√	√	√	√	√	√	√	√	√	
INLEX	√	√	√	√	√	√	√	√	√	√	LaserCat, LC Authorities
Innovative	√	√	√	√	√	√	√	√	√		
Library Corp.	√	√	√		√		√	√	√		
multiLIS	√	√	√	√	√	√	√	√	√	√	
Nichols	√		√		√		√	√	√	√	Mitinet, ASCIS (Australia)
NOTIS	√	√		√	√	√	√	√	√	√	Any CD-ROM MARC database
NSC	√	√	√	√	√		√	√	√		
Ringgold	√	√	√	√	√	√	√	√	√	√	Any MARC record source
Sirsi	√	√	√	√	√	√	√	√	√	√	Books in Print
UNISYS	√	√	√		√	√	√	√	√		Any MARC record source
VTLS	√	√	√	√	√	√	√	√	√	√	Gaylord
Winnebago	√	√	√	√	√	√	√	√	√	√	w/MARC compatibility module

T(ape) = data transfer via magnetic tape load only; not an interactive, online interface. Ds = diskettes.

cluding the patron file. Software efforts include a fully integrated Materials Booking module, E-mail, inventory control, a community information database, journal citations, and gateway access to external systems. Looking ahead for 1992 Innovative claims that its order backlog is strong and the company is in excellent financial shape.

The Library Corporation

Yet another new face in the profile list, Library Corporation is probably best known for its BiblioFile product, a CD-ROM-based cataloging system. But the company has also quietly put a great deal of work into its hybrid system, which connects via LAN its CD-ROM-based Intelligent Catalog to a microcomputer-based circulation control system. One might hastily (and incorrectly) dismiss this system as suitable only for single-library operations, but the company listed two multibranch sites among its 1991 accomplishments. Other efforts over the past year include a dial-up PAC and software-only systems running on a variety of LANs (Ethernet, Token Ring, and ARCNet). Following current marketplace pressures, the company plans in 1992 to upscale its small system design—enhancing its multibranch circulation system and releasing a new serials control module.

multiLIS

Although it also functions in the DEC VMS environment, multiLIS showed that it was able to capitalize on its UNIX-compiled software version by migrating its minicomputer product to 386- and 486-based microcomputers. The vendor claims that its PC software is entirely compatible with its minicomputer-based big brother, offering the complete array of modules. This software redesign is very timely in this era of downsizing pressure, as 90% (35 of 39) of its 1991 system sales were in the 1-16 terminal range. While the company has been considered primarily a Canadian marketeer in the past, over one-half of its 1991 sales were in Europe, another example of expansion away from the North American continent. The vendor's major 1991 accomplishment is its selection by the State University of New York to provide software and services to 42 campuses over the next three years. Goals for 1992 include a U.S. release of the collection exchange module—designed as a response to ever-tightening budget constraints, this resource-sharing software will allow block relocation loans from a central site—a new windowing acquisitions module, and in response to its growth in the European market, a Minitel and Videotex interface.

Table 4: Size of Installations

Vendor	Smallest Library Installed		Largest Library Installed	
	Terminals	Titles	Terminals	Titles
CARL	96	200,000	1,300	6,000,000
CLSI	2	20,000	396	2,000,000
CMDS	6	30,000	39	110,000
CoBIT	17	72,205	301	454,000
Comstow	2	3,000	32	400,000
CTB	1	1,500	150	200,000
Data Research Assocs.	5	20,000	600+	1,400,000
Data Trek	2	750	40	205,000
Dynix	1	8,000	450+	1,700,000
Gateway	3	10,000	188	400,000
Gaylord	2	26,000	215	1,500,000
GEAC	3	30,000	400	4,200,000
GEAC Advanced	2	10,000	165	1,200,000
Highland	3	6,6000	33	120,000
IME	1	10,000	82	350,000
Information Dimensions	5	10,000	200	600,000
INLEX	7	35,000	200	345,000
Innovative Interfaces	2	5,000	230	1,500,000
Library Corporation	1	5,000	32	21,000
multiLIS	2	5,000	250	2,500,000
NOTIS	15	18,800	1,200+	9,200,000
NSC	4	10,000	64	275,000
Ringgold	1	50,000	32	360,000
Sirsi	2	5,000	150+	927,000
UNISYS	10	7,800	3900+	9,740,000
VTLS	2	3,000	250	3,800,000

Nichols Advanced Technology

It is unfortunate that the author could not obtain a client list, as this microcomputer-based Canadian vendor claimed to have a user base exceeding 1000 systems, 260 sold in 1991 alone. Therefore, these numbers remain unverified. Concentrating its efforts in school libraries, during 1991 the company opened an office in Wisconsin to market its Molli circulation and OPAC software. Other products and services include retrospective conversions, barcode readers, and labels. For 1992 Nichols plans to introduce an acquisitions module, and a borrower conversion program to create patron records by importing data from student administration systems.

NOTIS

In terms of system sales, NOTIS put in a performance of uncanny consistency. In 1990 the company sold 15 systems and in 1991 the tabulation was 14 (all but one of these are in the academic sector). Remarkably, the company's KeyNOTIS turnkey product saw three sales, the same as in 1990. The major 1991 news for NOTIS was its acquisition by Ameritech in October. According to Ameritech and NOTIS at the time (and the author has seen little reason to doubt it since), NOTIS will operate exactly as it did before the takeover, with current management remaining in place. Like the Ameritech Dynix purchase, the transaction appears to furnish the benefit of "deep pockets" for capital infusion and R&D as needed. Moreover, because system networking and information transfer are becoming increasingly important, the library automation market is a clear area of interest for a telecommunications company like Ameritech. The primary unresolved issue is the potential conflict between Dynix and NOTIS while vying for the same market. One possible answer is that Dynix has not heavily concentrated on the large academic library market or shown any serious interest in the IBM "heavy iron" environment, both of which are NOTIS mainstays. And NOTIS has generally ignored the public library sector and the international arena, both typical Dynix territories. Among its 1991 accomplishments, NOTIS expanded its software support operations to include the existing Ameritech LS/2000 line of library software and implemented Release 1.1 of its turnkey product KeyNOTIS, thereby expanding it to include all features in Release 5.0 of the NOTIS software-only product. NOTIS enhanced its OPAC with a new Boolean search engine called NOTI-Search, with new positional operators and search qualifiers. System-to-system links will move ahead in 1992, via Z39.50 and TCP/IP to provide a seamless connection for searching and ILL transactions. Other software efforts will include a location-based catalog, where users can specify a subset of an entire NOTIS database, EDI for serials claims, and improvements to MDAS, NOTIS's journal citation software.

NSC

NSC is another software-only vendor whose product runs on the IBM AS/400 series computers. In 1991 NSC installed five systems and maintained its user base at 20. A full-featured system containing all of the usually encountered subsystems, NSC added MARC-based authority control processing and enhanced its MARC import/export module. Plans for 1992 include continued enhancement of the serials/acquisition module, expansion of windowing capabilities, a new OPAC module, and improved user documentation.

Ringgold Management Systems

A UNIX-based microcomputer system, the Ringgold product has two networkable components: the Nonesuch Acquisitions and the Nonesuch Circulation Control products. The company listed five installations in 1991, three of which are in the 5-8 terminal segment. Other accomplishments include an OCLC Prism interface and the operational status of its acquisitions product in the Milwaukee Public Library. Goals for 1992 include creating the Nonesuch Catalog (a windows-based video graphics array [VGA] color graphics product) and finishing an electronic invoice interface for acquisitions.

Sirsi

Sirsi had a very successful and consistent year. Last year's user base growth was 76%,

Table 5: Hardware Availability

Manufacturer	Model	Vendor
Altos	2000	CLSI
Apple	Macintosh +, SE, Mac II	Data Trek, Winnebago
ARIX	all	Innovative, Sirsi
AT&T	3B2 Series	Centel/DataLib
	Model 850/875	Geac Adv.
BULL	DPX 210, 510	multiLIS
	XPS-100, DPX/2	Geac Adv.
Control Data	EPIX	Info Dimensions
Convergent	all UNIX	Innovative Interfaces
	S640	IME
Data General	AViiON Series	Geac Adv
	MV/ Series	Centel/DataLib, CoBIT LS/2000 (Ameritech)
	S/ Series	LS/2000 (Ameritech)
DEC	Vax, MicroVAX, under VMS	Centel/DataLib, Comstow, Data Trek, DRA, Dynix Marquis, Gaylord Info Dimensions, multiLIS
	VAXstation/VAXsystem, under ULTRIX	Comstow, Dynix Marquis, Geac Adv, IME, Info Dimensions, Innovative, multiLIS, Sirsi
	PDP 11/XX Series	CLSI
	UltrixRISC System	Dynix, Innovative, multiLIS
Encore	all	Dynix, Geac Adv,
	Series 91, 93	IME
Fujitsu	all	Dynix
Geac	6000, 8000, 9000, 9302, 9500	Geac GLIS
Hewlett-Packard	3000 Series	INLEX, VTLS
	9000 (UNIX)	Dynix, Dynix Marquis, Info Dimensions, Sirsi
	9000 Series 800	Geac Adv, IME
Honeywell	DPS/6	Dynix
HP/Apollo	9000 Series 800	Geac Adv, IME
	all	Comstow
IBM	30XX	Brodart, Geac Adv, Info Dimensions, NOTIS, VTLS
	43XX	Info Dimensions, NOTIS
	937X	Info Dimensions, NOTIS, VTLS
	9X21	VTLS
	AS/400	CMDS, Gateway, NSC
	ES/9000 Series	Info Dimensions, NOTIS, VTLS
	R6000 Series	CLSI, Dynix, Geac Adv, Highland, IME, Info Dimensions, Sirsi
	RT series	Dynix, Highland
	S/38	NSC
ICL	Power 6 Series	Centel/DataLib
	DRS 40, 50, 60, 300, 500	IME
IN2	Model 4000	Geac Adv
Innovative	INNOVACQ	Innovative Interfaces
Intel	386/486-based systems	Data Trek, Dynix, Highland, IME, INLEX The Asst., Lib. Corp., Sirsi, multiLIS, Nichols, VTLS, Winnebago
McDonnell Douglas	any w/PICK oper. system	Geac Adv
	Sequel, Spirit	Dynix
MIPS		Dynix, Innovative, multiLIS
Motorola	M8000	Geac Adv
	M9000	Highland
NCR	Tower 300, 500, 700	multiLIS, Sirsi
Olivetti	LSX 3020/30/40	Geac Adv
Prime	EXL	Geac Adv
	50 Series, EXL	Dynix
Pyramid	all	Geac Adv, Sirsi
RC	900, 950, 990, 1900	IME
Sanyo ICON	2XXX-4XXX	Geac Adv
Sequent	S40; S2000/250, 450, 750	CLSI
	all	Dynix, Geac Adv, Sirsi
Sequoia	all	Dynix
	Series 200	Geac Adv
	VX9600	IME
Stratus	all	Dynix Marquis
Sun	all	Comstow, Info Dimensions Sirsi
	SPARCstation series	Carlyle, Dynix, Dynix Marquis, IME
	3/280, 3/30	IME
Tandem	TXP, TNSII	Alice-B (Ameritech)
	CLX, VLX, Cyclone, TNS, TXP	CARL
	EXT	Utlas
Ultimate	14XX, 3XXX-7XXX	Dynix
UNISYS		Innovative Interfaces
	1100,2200	UNISYS
	5000 Series	Dynix, Geac Adv, IME
	6000 Series	IME, Sirsi
Wang	VS Series	NSC
Wyse	2108,2012,2116i	CLSI

and this year it was 77%, expanding from 81 systems to 144. Sirsi saw continued success in the K-12 market, with 47% of its sales occurring there. The 1991 Sirsi software enhancements, although significant, may now sound familiar—a reflection of general marketplace maturity across vendor lines. Sirsi introduced retrieval interfaces to external databases (Wilson, IAC, UMI, etc.), expanded circulation and acquisitions capabilities, and electronic bulletin boards. Its 1992 plans include a new cataloging release, a new acquisitions release with X.12 transmission capability, additional external databases, and a new security module.

UNISYS

UNISYS PALS system is generally regarded as serving large computer terminal networks, and 1991 was no exception. The PALS product saw five installations in 1991, and four of them have 65 or more terminals. During 1991 the product saw a new software release that includes external database searching (Wilson and UMI). For 1992 the company plans enhancements to its OPAC, reference databases, and acquisitions products, as well a focus on customer satisfaction.

Table 6: Operating Systems

System	Release	Vendor
AIX	2.1,2.2	Geac Adv, Dynix, Sirsi
AOS/VS	7.65+	Centel/DataLib
	7.57+	CoBIT
AOS/VS II	1.21+	CoBIT
Apple Macintosh System	4.2+	Data Trek, Winnebago
Apple Macintosh Finder	6.0+	Data Trek
CDC NOS/VE	1.2.1	Information Dimensions
CICS	1.7	Brodart
CICS/VS	1.6+	NOTIS
CLSI Proprietary	27.45	CLSI
CMS-1100	5R1A	UNISYS
COMLOG (Data General)	1.52	CoBIT
DG/UX	R4.X	Geac Adv
DMS	8R3G	UNISYS
EXEC	41R3	UNISYS
GeOS.8	3.4	Geac GLIS
GeOS.9	2.7.4	Geac GLIS
Guardian	90 XF	CARL
	B40, C20	Alice-B (Ameritech)
Hewlett-Packard MPE V/E		Inlex, VTLS
Hewlett-Packard MPE/XL		Inlex, VTLS
Hewlett-Packard OS		Info Dimensions
IN2	Rel.3.X	Geac Adv
INFOS II	Rev.5.01+	CoBIT
Motorola System V	68/88	Geac Adv
MS/DOS	3.2+	Autographics SLiMS
MS/DOS	3.3+	CTB, Data Trek, INLEX The Asst. Nichols, Winnebago
	5	Library Corporation
MVS-IBM/ESA		Info Dimensions, NOTIS
MVS-IMB/SP		Info Dimensions
MVS-IBM/370		NOTIS
MVS-IBM/TSO		Info Dimensions
MVS-IBM/XA		Info Dimensions, NOTIS
NCR (Unix V)		multiLIS
OS-IBM/VS1		NOTIS
OS/2	1.X	Dynix Marquis
OS/400		NSC, ProData
	3.0	CMDS
	V.2 Rel 1	CMDS, Gateway
OS1100	5R1	UNISYS
PICK		Dynix, Highland
	1.6	Geac Adv.
PI/1 (Data General)	2.52	CoBIT
Primos (oper. PICK)		Dynix
Pyramid OSx	4X	Geac Adv
Sun OS		Info Dimensions, IME
System V RTU		Geac Adv
TOPIX	6.X	Geac Adv
ULTRIX		Info Dimensions, Comstow
	3.X	Geac Adv, Innovative Interfaces
UMIPS RISC OS (UNIX)	4.51	multiLIS
UNISYS System V	2.0, 3.X	Geac Adv
UNIX		UNISYS
	AIX	Comstow, CLSI LIBS 100+, Dynix, Geac Adv, Highland, IME, Info Dimensions, Sirsi
	BSD 4.3, HP-UX	Comstow
	System V.3	Centel/DataLib,Innovative,Ringgold
		Geac Adv, multiLIS, Sirsi
	System V RTU	Geac Adv
	System V.3.2	Carlyle
	System V.4.2	IME
	System V.5.n	Comstow
	System V.5.2	multiLIS
	SCO 3.2	IME, multiLIS
UNIX (oper. Altos)	Sys. V.5.3 DT3	CLSI (Rel. 28)
UNIX (oper. Bull)	V.2.X	Geac Adv, multiLIS
UNIX (oper. Convergent)	CTIX 5.22	IME
UNIX (oper. Encore)	UMAX V.3.0.6	IME
UNIX (oper. ICL)	V 3.2, NX2.22.02	IME
UNIX (oper. PickTel, PickBlue)		Dynix
UNIX (oper. Sequent)	3.017	CLSI (Rel. 28)
UNIX (oper. Sequent)	PTX1.3	CLSI (LIBS 100+)
UNIX (oper. Sequent)	Dynix 3.0.17	IME
UNIX (oper. VMark, UniVerse)		Dynix
VM-IBM/CMS		Info Dimensions
VM-IBM/SQLVS	1.2+	VTLS
VMS		Dynix Marquis, Info Dimensions
	4.4-5.2	Comstow
	4.5+	Centel/DataLib
	5.0+	Data Trek
	5.4	multiLIS
	5.5	Comstow
	latest	DRA, Gaylord
VMS (oper. PICK)		Dynix
VRM (IBM) (oper. PICK)		Highland
VSE/SP	2.1+	NOTIS
Wang VS		NSC
Windows	3.X	Dynix Marquis
Xenix		Ringgold

VTLS

VTLS boosted its revenues by 20%, its staffing by 10%, and its user base by 14% (from 187 to 214 sites). An outspoken proponent of the multimedia library automated system, the company installed its first such system at the National Agricultural Library. With one-half of all VTLS systems going to the European continent—including a multilibrary network in Spain—the company has enjoyed some results from its aggressive marketing there. Bucking the general downsizing trend somewhat, VTLS managed six new sites having an excess of 65 terminals, a worthy performance as this market diminishes domestically. The company plans additional versions of its software for 1992, falling into step with much of the market by offering a UNIX product. Other goals include expansion of its IBM market and enhancements of its multimedia catalog. With its MicroVTLS system for the smaller libraries, Hewlett-Packard-based products for larger ones, its IBM mainframe-based software, and its upcoming UNIX system, VTLS has the flexibility to meet the challenges of the 1990s.

Source List

Advanced Libraries & Information, Inc.
(see Geac)

Ameritech Info Systems
4950 Blazer Memorial Pkwy.
Dublin, OH 43017-3384
800-848-5878;
614-793-5590
FAX 614-674-0723

APAK Systems Ltd.
5405 Eglinton Ave. W.,
Suite 215
Etibicoke, Ontario,
Canada M9C 5K6
416-620-5841;
FAX 416-620-1819

Auto-Graphics, Inc.
3201 Temple Ave.
Pomona, CA 91678-3200
800-776-6939
714-595-7204
FAX 714-595-3506

Brodart
Library Automation Div.
500 Arch St.
Williamsport, PA 17705
800-233-8467
717-326-2461

CARL Systems Inc.
3801 E. Florida Ave.
Bldg. D, Suite 300
Denver, CO 80210
303-758-3030
FAX 303-758-0606

Carlyle Systems, Inc.
2000 Alameda de las Pulgas
San Mateo, CA 94403
415-345-2500
FAX 415-654-0464

Caspr, Inc.
120111 Stevens Creek Blvd.
Cupertino, CA 95014
408-446-3075
PRODUCT: Mac Library System (MLS)

Centel Federal Services, Inc.
11400 Commerce Park Dr.
Reston, VA 22091
800-762-5632
703-758-7000
FAX 703-758-7380
PRODUCT: DataLib

Chancery Software
Suite #450,
4170 Still Creek Dr.
Burnaby, BC,
Canada V5C 6C6
800-999-9931
604-294-1233
FAX 604-294-2225
PRODUCT: MacSchool

CLSI, Inc.
320 Nevada St.
Newtonville, MA 02160
800-365-0085
617-965-6310
FAX 617-969-1928

CoBIT
(The Council for Bibliographic and Information Technologies)
3380 Tremont Rd.
Columbus, OH 43221-2112
800-837-1222;
614-538-1222
FAX 614-538-0630

Compel, Inc.
5113 27th Ave.
Rockford, IL 61109
800-545-0053

Computer Management & Development Services (CMDS)
1661 Virginia Ave.
PO Box 1184
Harrisburg, VA 22801
800-999-2637
FAX 703-432-5275

Comstow Info Svcs.
249 Ayer Rd., PO Box 277
Harvard MA 01451-0277
508-772-2001
FAX 508-772-9573

CTB—Macmillan/McGraw-Hill
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Data Research Assocs., Inc.
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Canada 800-331-3515
FAX 314-994-8927

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604-980-8358
US: PO Box 3379
Blaine, WA 98230

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800-766-0039;
617-329-3350
FAX 617-329-8987

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McHenry, IL 60050-5589
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815-344-8700
FAX 815-344-8774

Foundation for Library Research, Inc.
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Southside, WV 25187
304-675-4350,1825
FAX 304-675-6124

Gateway Software Corp.
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Fromberg, MT 59029
800-735-3637;
406-668-7661
FAX 406-668-7665

Gaylord Information Systems
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Syracuse, NY 13221-4901
800-962-9580;
315-457-5070
FAX 315-457-8387

Geac Computers, Inc.
14140 Midway
Dallas, TX 75244
214-490-3482
FAX 214-960-9728

General Research Corp.
5383 Hollister Ave.
PO Box 6770
Santa Barbara, CA 96130
800-235-6788

Georgetown University Medical Center
Dahlgren Memorial Library
3900 Reservoir Rd. NW
Washington, DC 20007
202-687-1035
FAX 202-687-1862

Highland Library Systems, Inc.
1350 Heather Ridge Blvd.
Dunedin, FL 34698
813-734-7300
FAX 813-733-4791

IME Systems, Inc.
990 Washington St.
Dedham, MA 02026-6790
617-320-0303
FAX 617-320-0793

Information Access Corp.
11 Davis Dr.
Belmont, CA 94002
415-378-5000

Information Dimensions, Inc.
5080 Tuttle Crossing Blvd.
Dublin, OH 43017-3569
800-DATA-MGT;
614-761-7446
FAX 614-761-7290

Inlex, Inc.
1 Lower Ragsdale Dr.
Bldg. 1, Suite 100,
PO Box 1349
Monterey, CA 93942
800-553-1202
in CA 800-365-8822
408-646-8600
FAX 408-646-0651

Innovative Interfaces
2344 Sixth St.
Berkeley, CA 94710
800-444-2344;
510-644-3600
FAX 510-644-3650

International Library Systems
2600 Granville St., Suite 320
Vancouver, BC
Canada V6H 3V3
604-734-8882
FAX 604-734-8854

JES Library Automation Consulting Svces. Inc.
#104–221 Blue Mountain St.
Coquitlam, BC
Canada V3K 4H3
604-939-6775

K-12 MicroMedia Publishing
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Ramsey, NJ 07446
800-292-1997;
201-825-8888
FAX 201-825-0582

Keystone Systems
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Suite 301
5413 Creedmoor Rd.
Raleigh, NC 27612
919-782-1145

Lex Systems, Inc.
10622 129th St.
Edmonton, Alberta
Canada T5N 1X3
403-455-7942
FAX 403-451-2754

LIBerator Information Systems & Svces. Inc.
(see AutoGraphics, Inc.)

Library Automation Products
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New York, NY 10001
212-967-5418
FAX 212-967-5457

Library Corp. of America
Research Park
Inwood, WV 25428
800-624-0559;
304-229-0100
FAX 304-229-0295
PRODUCT: Intelligent Catalog

Library Technologies, Inc.
1142-E Bradfield Rd.
Albington, PA 19001
215-576-6983
FAX 215-576-6984
PRODUCT: Bib-Base

Media Flex Inc.
PO Box 1107
Champlain, NY 12919
518-298-2970

multiLIS Corporation
505 Rene-Levesque Blvd. W.
Montreal, Quebec
Canada H2Z 1Y7
514-878-9090
FAX 514-878-2673

Multicore Library Svces.
4924 Reed Rd., Bldg. A
PO Box 20287
Columbus, OH 43220-3155
800-753-0053
FAX 614-459-6864

Nichols Advanced Technologies
110 Royal LePage Bldg.
10130-103rd St.
Edmonton, Alberta
Canada T4J 3N9
403-424-0091
FAX 403-428-7644

or US branch

3452 Losey Blvd. S.
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800-658-9453
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NOTIS Systems, Inc.
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Evanston, IL 60201-3622
708-866-0150
FAX 708-866-0178

NSC, Inc.
428 W. Ryan St.
Brillion, WI 54110
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FAX 414-756-2359

OCLC, Inc. (LC/2000)
Local Systems Division
(see Ameritech
Info Systems)

ProData Computer Svcs.
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Omaha, NE 68114
800-228-6318;
402-399-9997
FAX 402-399-8249

Professional Software
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Glen Ridge, NJ 07028
201-748-7658

Ringgold Management Systems, Inc.
PO Box 368
Beaverton, OR 97075-0368
503-645-3502
FAX 503-690-6642

Sedna Corporation
PO Box 22436
Minneapolis, MN 55422
612-535-2326

Serial Management Systems
PO Box 22436
Minneapolis, MN 55422
612-535-2326

Sirsi Corporation
110 Walker Ave.
Huntsville, AL 35801
205-536-5884
FAX 205-536-8345

Sobeco Group
(see multiLIS Corp.)

TKM Software Ltd.
PO Box 1525
839 18th St.
Brandon, Manitoba
Canada R7A 6N3
204-727-3873
FAX 204-727-3338

Tacoma Public Library (Alice-B)
(see Ameritech)

ULISYS Software Group, Ltd.
(see JES)

UNISYS
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MS/B140
Blue Bell, PA 19424
215-986-6423
FAX 215-986-6583

Universal Library Systems
(see JES)

Utlas International Canada
UTLAS Internat. U.S., Inc.
(see CARL Systems, Inc.)

VTLS, Inc.
1800 Kraft Dr.
Blacksburg, VA 24060
800-HOT-VTLS
703-231-3605
FAX 703-231-3648

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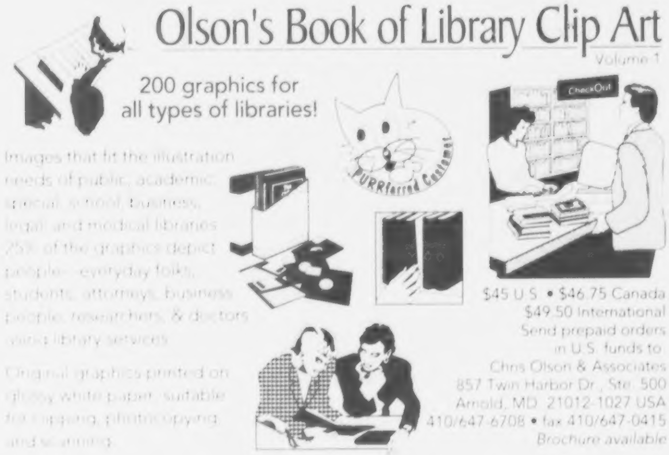

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Laura Isenstein and the staff at BCPL produced an 80 percent jump in reference effectiveness by following the STAR program. Isn't it time to "Get Your Reference Staff on the STAR Track"? See p. 34.

PHOTOGRAPH BY KATHERINE LAMBERT

April 15, 1992

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For the second year in a row, a double-digit increase

PERIODICAL PRICE INDEX 1992

By Kathryn Hammell Carpenter & Adrian W. Alexander

PUBLICATION OF THE 1992 U.S. Periodical Price Index represents the 32nd annual study of this type sponsored by the Library Materials Price Index Committee (LMPIC) of the Association for Library Collections and Technical Services (ALCTS), a division of the American Library Association. For the eighth consecutive year, the price index is based on subscription price information supplied, compiled, and analyzed by The Faxon Company, which shares the committee's concern for and interest in serials pricing trends.

Kathryn Hammell Carpenter is Bibliographer for the Health Sciences and Associate Professor, University of Illinois at Chicago, and Adrian W. Alexander is Regional Manager and Marketing Communications Coordinator, Academic Information Services, The Faxon Company. Both authors presently serve as consultants to the Library Materials Price Index Committee of the American Library Association

Once again this year, the periodicals price index accompanies the U.S. Serial Services Index, which appears under the authorship of Andrew Shroyer and Laura Nanna of the University of California at Santa Barbara. Together, these two annual studies follow guidelines, definitions, and criteria established in the ANSI standard (Z39.20-1983) for price indexes.[1]

1992 Price Index highlights

Analysis of this year's periodical price index shows what could be the beginning of a new pattern of price increases over the last few years. The 1992 average price for U.S. Periodicals (excluding Soviet Translations) is $117.11, or 12.2 percent higher than the 1991 average price of $104.36. This represents a second consecutive double-digit jump (28 percent in 1992; 23 percent in 1991) in the rate of price increase over what was experienced in both 1990 and 1989 (9.5 percent). Most of the previous decade, in fact, was characterized by a fairly stable rate of inflation of U.S. prices, as indicated in Table 7.

The inclusion of 211 Soviet Translations titles brings the 1992 average price to $155.93, which is 12.6 percent higher than the 1991 average price of $138.53 and which represents a 13.5 percent rise in the rate of price increase. Unlike the average price excluding translations, this inclusive av-

Table 1: Subject Categories Ranked by Average 1992 Subscription Price

Rank 1989	Rank 1990	Rank 1991	Rank 1992	Category	Average Subscription Price, 1992
1	1	1	1	Soviet Translations	$842.42
2	2	2	2	Chemistry & Physics	549.50
3	3	3	3	Medicine	276.01
4	4	4	4	Mathematics, etc.	235.26
5	5	5	5	Zoology	197.89
6	6	6	6	Engineering	192.77
7	7	7	7	Psychology	145.22
8	8	8	8	Sociology & Anthropology	91.19
11	10	10	9	Business & Economics	78.09
9	9	9	10	Home Economics	75.13
15	14	14	11	Industrial Arts	69.47
10	11	11	12	Journalism & Communications	68.68
13	13	13	13	Education	67.42
14	15	15	14	Labor & Industrial Relations	66.69
16	16	16	15	Law	60.53
12	12	12	16	Library & Information Sciences	59.42
17	17	17	17	Political Science	56.93
18	18	18	18	Agriculture	49.48
20	20	20	19	History	43.27
19	19	19	20	Fine & Applied Arts	41.15
24	23	23	21	Philosophy & Religion	35.96
21	21	21	22	Physical Education & Recreation	35.81
23	24	22	23	Literature & Language	35.77
22	22	24	24	General Interest Periodicals	34.56
25	25	25	25	Children's Periodicals	19.48
				U.S. Periodicals Index Excluding Soviet Translations	$117.11
				U.S. Periodicals Index Including Soviet Translations	$155.93

Table 2: Subject Categories Ranked by Annual Subscription Price Percent Increases

Rank 1989	Rank 1990	Rank 1991	Rank 1992	Category	Percent Increase 1990 over 1989	Percent Increase 1991 over 1990	Percent Increase 1992 over 1991
3	12	1	1	Engineering	8.2	15.3	20.4
9	2	23	2	Agriculture	15.9	-0.2	16.8
5	4	4	3	Chemistry & Physics	12.1	14.6	16.2
1	19	13	4	Labor & Industrial Relations	4.1	9.2	15.8
4	12	6	5	Zoology	8.2	12.2	14.7
8	3	8	6	Industrial Arts	12.3	11.5	14.0
17	8	19	7	Law	9.4	5.9	13.6
21	10	11	8	Soviet Translations	9.1	9.5	13.4
16	6	14	9	History	10.0	8.0	12.8
11	11	9	10	Mathematics, etc.	8.7	11.3	12.3
7	8	3	11	Medicine	9.4	14.7	10.4
14	9	7	12	Business & Economics	9.2	12.1	10.2
18	13	17	13	Philosophy & Religion	7.5	7.0	9.3
10	18	22	13	Journalism & Communications	4.7	3.2	9.3
22	19	15	14	Literature & Language	4.1	7.7	8.4
15	7	10	15	Education	9.5	10.8	8.0
12	5	18	16	Political Science	10.3	6.3	7.8
2	8	14	17	Psychology	9.4	8.0	7.3
21	17	22	18	General Interest Periodicals	5.2	3.2	7.2
13	17	21	19	Fine & Applied Arts	5.2	4.7	6.6
24	20	20	20	Children's Periodicals	3.3	5.0	6.0
20	14	16	21	Physical Education & Recreation	6.8	7.6	3.4
23	1	5	22	Sociology & Anthropology	16.3	14.3	2.8
6	15	2	23	Home Economics	5.8	14.9	1.4
19	16	12	24	Library & Information Sciences	5.3	9.4	-5.3
				U.S. Periodicals Index Excluding Soviet Translations	9.5	11.7	12.2
				U.S. Periodicals Index Including Soviet Translations	9.4	11.1	12.6

erage price has experienced more double-digit increases in the recent past. Over the past ten years, for example, rates of increase when translations are included have ranged from a low of 8.2 percent (1986 and 1989) to a high of 12.6 percent (1992) and have been at double-digit levels in six of those years.

Chart A (p. 59) compares the U.S. Periodical Price Index (USPPI) to the U.S. Consumer Price Index (CPI) and the Higher Education Price Index.[2] As in previous years, average periodical prices for 1991 continued to outpace the CPI by a substantial margin (more than two-fold, in fact). It should be noted here that, for the purpose of this study, the CPI is recalculated to a base year of 1977 in order to provide a common base.[3]

Soviet Translations on top

Table 1 provides a ranking of average periodical prices for each of the 25 subject categories included in this survey. As with the previous three years shown, Soviet Translations carry the highest average price in 1992. At $842.42, it is 13.4 percent higher in average price than last year and 53 percent higher than the second most expensive category, Chemistry and Physics. For this second reason, this study always includes two overall average periodical prices: one including the Soviet Translations titles and another excluding them.

Table 1 shows little change for 1992 in the rank order by price of the subject categories over the previous three years. The order of the top eight categories is identical in each of the four years shown, while the top seven categories have remained in the same rank order since at least 1983.[4] The category showing the biggest change in rank this year is Library and Information Sciences, which fell from 12th to 16th position. No other category changed more than one position in rank, other than Industrial Arts, which moved from 14th position in 1991 to 11th position in 1992.

Agriculture titles sow big increases

Table 2 ranks the average price in each subject category by percent of price change from the previous year. This table typically changes considerably each year, and 1992 is no exception. While Engineering retains the Number 1 position again this year, with an increase of 20.4 percent, Agriculture zoomed to the second posi-

Table 3: Average of Annual Subscription Price Percent Change by Broad Subject Category 1983–1992 (Excluding Soviet Translations)

Category	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	Change
GENERAL INTEREST & CHILDREN'S PERIODICALS											
General Interest	10.4	5.6	-5.3	2.0	3.1	1.8	5.0	5.2	3.2	7.2	3.8
Children's	16.1	6.3	9.0	3.4	10.4	7.8	3.4	3.3	5.0	6.0	7.1
HUMANITIES											
Fine & Applied Arts	7.8	6.9	0.5	4.6	8.1	6.0	8.1	5.2	4.7	6.6	5.9
Literature & Language	9.3	8.6	5.0	4.2	4.0	7.0	4.9	4.1	7.7	8.4	6.3
Philosophy & Religion	12.8	8.6	10.8	2.3	3.0	5.8	5.6	7.5	7.0	9.3	7.3
SOCIAL SCIENCES											
Business & Economics	9.2	9.0	14.3	6.2	6.9	6.9	7.5	9.2	12.1	10.2	9.2
Education	11.3	8.5	11.2	7.0	7.0	10.7	7.3	9.5	10.8	8.0	9.1
History	10.1	5.6	7.9	1.9	6.1	9.1	7.0	10.0	8.0	12.8	7.9
Journalism	10.3	5.0	17.4	3.2	6.6	5.4	8.9	4.7	3.2	9.3	7.4
Labor & Industrial Relations	18.2	2.2	16.3	6.9	4.1	14.0	15.0	4.1	9.2	15.8	10.6
Law	7.7	5.6	12.2	3.7	9.3	8.8	6.2	9.4	5.9	13.6	8.2
Library & Information Sciences	9.5	5.8	4.7	5.3	13.1	6.6	5.5	5.3	9.4	-5.3	6.0
Physical Education & Recreation	12.8	7.7	15.5	5.3	6.8	7.2	5.4	6.8	7.6	3.4	7.9
Political Science	11.9	11.9	0.9	7.5	13.5	4.0	8.4	10.3	6.3	7.8	8.3
Psychology	9.4	17.6	9.5	9.7	10.0	9.3	13.9	9.4	8.0	7.3	10.4
Sociology & Anthropology	11.4	8.2	16.0	10.7	7.1	6.6	3.8	16.3	14.3	2.8	9.7
SCIENCE & TECHNOLOGY											
Agriculture	7.6	13.1	8.3	10.2	8.4	7.8	9.1	15.9	-0.2	16.8	9.7
Chemistry & Physics	16.9	10.1	4.2	10.7	11.4	12.2	11.5	12.1	14.6	16.2	12.0
Engineering	18.9	7.5	7.2	9.8	11.7	11.0	11.8	8.2	15.3	20.4	12.2
Home Economics	4.1	4.1	10.5	11.1	6.8	12.5	11.3	5.8	14.9	1.4	8.3
Industrial Arts	6.3	5.4	15.4	13.3	4.3	6.6	10.2	12.3	11.5	14.0	9.9
Mathematics, etc.	10.5	9.6	9.7	11.1	12.4	9.1	8.7	8.7	11.3	12.3	10.3
Medicine	9.6	11.4	9.8	10.0	11.6	6.7	10.3	9.4	14.7	10.4	10.4
Zoology	15.8	10.8	15.8	13.3	9.8	12.8	11.6	8.2	12.2	14.7	12.5
U.S. PERIODICALS INDEX Excluding Soviet Translations	12.1	9.4	8.6	8.9	9.9	9.1	9.5	9.5	11.7	12.2	10.1

Table 4: Breakdown of Mathematics, etc. Category

Subcategory	No. of Titles			Average Price			% Increase		
	1990	1991	1992	1990	1991	1992	1990	1991	1992
Mathematics	76	82	83	$251.99	$268.65	$302.17	8.4	6.6	12.5
Earth Sciences (incl. Geography titles)	61	59	59	129.00	143.40	158.28	10.9	11.2	10.4
Life Sciences	44	44	44	276.17	297.41	335.17	5.7	7.7	12.7
Botanical Sciences	29	26	26	93.31	112.12	126.81	10.0	20.2	13.1
General Science (incl. Astronomy titles)	28	27	26	104.07	130.10	135.35	6.5	25.0	4.0
Total	**238**	238	238	188.20	209.55	235.26	8.7	11.3	12.3

tion, all the way from 23rd place in 1991. Labor and Industrial Relations, meanwhile, climbed to the Number 4 position from 13th place last year, with an increase of 15.8 percent.

Home Economics titles were in second place last year, but dropped all the way to 23rd position in 1992, after an increase over 1991 prices of only 1.4 percent. Sociology and Anthropology also dropped in the rankings significantly, from fifth place in 1991 to 22nd position this year, and Medicine fell from third position to 11th, with a 10.4 percent increase. Library and Information Sciences showed a *decrease* in average price of 5.3 percent, dropping from 12th place in 1991 to last place in 1992.

Altogether, 12 of the 25 categories experienced price increases of ten percent or more in 1992, as compared with ten categories in 1991. Of these, four categories were social sciences, while the other eight were in the pure and applied sciences.

Taking a ten-year view of increases

Table 3 charts changes in annual percent increases from 1983 by broad subject category. The last column of the table shows an average annual percent increase for the ten-year period. The data presented here confirm previous studies that show that the average rate of increase for science titles over the past ten years has outpaced that of the social sciences and humanities. For the period covered, five of the eight "Sci/Tech" categories showed average annual increases exceeding ten percent, while increases ranged from a low of 8.3 percent (Home Economics) to a high of 12.5 percent (Zoology). In the Social Sciences area, only two of the categories had average annual increases exceeding ten percent, and the increases ranged from a low of 6.0 percent (Library and Information Sciences) to a high of 10.6 percent (Labor and Industrial Relations).

Mathematics, plus

Table 4 provides a three-year breakdown of the "Mathematics, Etc." category into five more specific subcategories. In terms of average price, this category continues to be domi-

Purpose, Scope, and Methodology

THE PURPOSE OF this index and its accompanying tables and analysis is to measure changes in average U.S. periodical prices in a historical context. The information provided here is of use to librarians who must prepare annual budget requests for serials, as well as those involved in analyzing serials pricing trends over a period of years.

The scope of this study is a selected sample of 3,942 periodical titles published in the United States, each of which has an established subscription price and which fulfills the definition of a periodical established in ANSI Z39.20-1983 of "a publication that constitutes one issue in a continuous series under the same title, published more than once a year over an indefinite period, with individual issues in the series numbered consecutively or with each issue date. Newspapers are excluded."

Consistency with previous years' indexes is assured by maintaining the same periodical title sample, except for those titles that ceased publication or otherwise changed for the 1991 subscription year and that no longer conform to the standard. Serial services, microform editions, electronic journals, annuals, and serials publications not adhering to the ANSI Z39.20-1983 definition of periodicals are excluded from the survey. Priodicals that change title are considered the same publication if volume numbering remains continuous.

Because of the need to maintain continuity of current price index data with that presented in previous studies in this series, no additional periodical titles over and above the selected sample of 3,942 titles have been analyzed. Although the title selection procedure represents a deviation from the ANSI Z39.20-1983 standard, LMPIC's emphasis on historical perspective justifies the selection methodology used in this study.

Subscription price information for the 1992 subscription year is derived from the Faxon online title subscription rate file as of January 31, 1992. The price information used is that which is established by the publishers for U.S. libraries. Annual subscription prices used in this study are publishers' list prices and exclude all related Faxon service charges as well as publisher discounts to Faxon. The 1992 subscription prices for 32 titles that were included in this study but not available through Faxon because of publisher policy were obtained directly from the publishers by telephone inquiry.

A total of 118 titles included in the 1991 price index study were dropped from the 1992 study for one or more of the following:

- suspended publication;
- subscription pricing variance;
- title no longer available on a subscription basis;
- title available free from publisher;
- delayed or slow publication;
- title no longer published in the United States;
- title no longer conforms to the standard definition of a periodical due to changes in publication pattern.

Replacement titles for those 118 dropped from the 1991 price index sample were selected according to criteria established by the LMPIC and were selected on a title-by-title basis from the same subject category as those titles that were dropped. In situations where multiple possible replacement titles were identified, those titles with the greatest number of Faxon-placed subscriptions were selected for inclusion in the 1992 study.

Replacement titles were identified using bibliographies in *Choice* and *Serials Review*, as well as *LJ*'s Magazines column. The Faxon online database was consulted for information related to publications undergoing changes in title or country of publication. Library of Congress classification, title, date of first issue, publisher, country of publication, and place of publication for each replacement title were verified in the MARC-S database maintained in the Faxon online system.

The average annual subscription prices and the price indexes for each subject category were computed using the methodology specified in the ANSI Z39.20-1983 standard. This procedure involves the following:

- For each of the 25 subject categories, the total annual subscription price is divided by the number of titles in the category to determine an average price by category.
- Each average subscription price for the current year is divided by the average price in that subject category for the base year (1977) and then multiplied by 100 to arrive at the current price index for each category.

Ongoing responsibility for continuing the price indexes for periodicals and serials services rests with the ALA/ALCTS Library Materials Price Index Committee. Comments may be addressed to John M. Haar, Chair, Virginia Commonwealth University, Box 2033, Richmond, VA 23284.

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nated by Mathematics ($302.17 in 1992) and Life Sciences ($335.17 in 1992). From the standpoint of rate of increase, Botanical Sciences, which showed a 13.1 percent price increase, just edged out the two most expensive sub-categories, even though Mathematics almost doubled its rate of increase from that of 1991 (6.6 percent to 12.5 percent). General Sciences, which had an increase of 25.0 percent in 1991, rose by only 4.0 percent in 1992.

Table 5 examines each subject category in terms of the proportion of titles in each that increased in price each year between 1990 and 1992. For the third year in a row, Soviet Translations leads this list with 98 percent of its titles increasing in price (95 percent in 1991). Once again, this is the only category with more than 90 percent of its titles costing more than in the previous year, but the Chemistry & Physics category is close behind, as always, with 89 percent. Medicine (83 percent) and Psychology (81 percent) are the only others higher than 80 percent.

Details by classification code

Table 6 is a detailed analysis of average price and percent increase by single- and two-letter Library of Congress subject classification, for 1989–92. The highest average prices in 1992 are again in Physics (QC) at $742.39 and Chemistry (QD) at $735.80, while the lowest average prices for 1992 are in General Works (A) at $25.41, English and American literature (PR, PS) at $26.53, and Religion (BX) at $28.36. The rate of increase is highest for Home Economics (TX) at 35.1 percent, while the lowest rate is in Medicine, General (R), with a net *decrease* of 16.7 percent.

The Home Economics figure in Table 6 is an interesting anomaly, particularly because the broader Home Economics index sub-sample of 90 titles in Table 7 increased by only 1.4 percent in 1992. However, this sample includes much more than just titles classed as (TX) in the Faxon MARC-S database. In fact, only 30 of the 90 titles are classed TX, while the rest carry a wide range of related LC classes, the most prominent being Handicrafts (TT) and Chemical Technology (TP).

The figure for Medicine (General) actually reflects a slight anomaly in the 1991 data. The average price for this class in 1991 was $176.96, which represented a 23.5 percent increase over the 1990 average price of $143.31 (the 1989 price was $134.18), probably a result, in part, of a drop in the number of titles in this sub-sample, from 36 in 1990 to 28 in 1991. The average price of this sub-class for 1992 is $147.36. When examining any of the data in Table 6, it should be remembered that a number of the LC classes are represented by very small sub-samples.

Two new members to the "500 Club"

Table 7 compares average price and rate of price increase for each of the 25 subject categories, while also indexing prices to the 1977 base year. In 14 categories, the USPPI has risen to 400 or above, indicating an increase in price of more than 400 percent since 1977. Five of those categories—Chemistry & Physics, Engineering, Labor & Industrial Relations, Medicine, and Zoology—show increases of 500 percent or more in that time period. Engineering and Medicine are new to this exclusive "500 Club" this year. Likely candidates for membership next year include Industrial Arts, Mathematics, Etc., Soviet Translations, and the overall price index itself, both including and excluding translations.

Chart A: Price Index Comparison (CPI, HEPI, USPPI)

	Index						% Increase Over Previous Year			
	CPI 1977	CPI 1967	CPI 1982–84	HEPI 76/77	USPPI excl. Sov. Trans.	USPPI incl. Sov. Trans.	CPI	HEPI	USPPI excl. Sov. Trans.	USPPI incl. Sov. Trans.
1986	180.9	328.4	110.5	199.7	264.3	261.5	1.9	4.6	8.9	8.2
1987	187.5	340.4	115.4	207.9	290.4	288.3	3.7	4.2	9.9	10.3
1988	195.2	354.3	120.5	217.1	316.9	315.5	4.1	4.4	9.1	9.4
1989	204.6	371.3	126.1	229.9	347.2	341.3	4.8	5.9	9.5	8.2
1990	215.6	391.4	130.7	243.7	380.0	373.3	5.4	6.0	9.5	9.4
1991	227.5	413.0	137.9	256.1	424.4	414.5	5.5	5.1	11.7	11.1
1992	n/a	n/a	n/a	n/a	476.2	466.6	n/a	n/a	12.6	12.2

Table 5: Percentage of Titles Increasing in Price by Subject Category 1990–1992

Category	1990	1991	1992	Average
Agriculture	33	37	40	37
Business & Economics	37	48	44	43
Chemistry & Physics	85	85	89	86
Children's Periodicals	33	31	40	35
Education	47	44	47	46
Engineering	51	55	57	54
Fine & Applied Arts	30	37	38	35
General Interest Periodicals	31	29	33	31
History	28	28	34	30
Home Economics	37	41	34	37
Industrial Arts	44	42	42	43
Journalism & Communications	31	46	38	38
Labor & Industrial Relations	31	41	41	38
Law	29	31	31	30
Library & Information Sciences	42	50	27	40
Literature & Language	33	40	44	39
Mathematics, etc.	56	68	66	63
Medicine	71	87	83	80
Philosophy & Religion	34	32	28	31
Physical Education & Recreation	28	31	34	31
Political Science	39	42	41	41
Psychology	72	62	81	72
Sociology & Anthropology	59	62	63	61
Soviet Translations	99	95	98	97
Zoology	41	55	64	53
U.S. Periodicals Index Excluding Soviet Translations	44	48	49	47
U.S. Periodicals Index Including Soviet Translations	47	50	51	49

Table 6: 1992 Average Prices by Library of Congress Classification Codes U.S. Periodicals (Including Soviet Translations)

Classification code			No. of Titles 1992	No. of Titles 1991	No. of Titles 1990	Average Price 1992	Average Price 1991	Average Price 1990	Percent Increase 1992/1991	Percent Increase 1991/1990	Percent Increase 1990/1989
A	General Works		118	121	112	$25.41	$29.28	$24.47	-13.2	19.6	6.1
B	Philosophy, Psychology, Religion		217	213	209	69.19	64.68	59.21	7.0	9.2	6.7
	B-BD, BJ	Philosophy	40	51	39	63.23	51.24	53.71	23.4	-4.6	6.5
	BF	Psychology	80	79	77	121.68	111.85	105.01	8.8	6.5	6.2
	BL-BX	Religion	97	83	93	28.36	28.05	23.61	1.1	18.8	7.2
C	Auxiliary Sciences of History		14	14	13	47.93	47.00	42.62	2.0	10.3	12.6
D	History: General & Old World		66	66	66	55.95	47.78	45.64	17.1	4.7	8.6
E-F	History: America		113	114	119	31.86	28.84	26.24	10.5	9.9	6.2
G	Geography, Anthropology, Recreation		157	160	156	80.88	72.74	65.14	11.2	11.7	10.4
	G-GC	Geography, Oceanography	33	33	32	195.66	174.27	162.15	12.3	7.5	18.5
	GN	Anthropology	21	21	20	112.62	98.38	85.50	14.5	15.1	10.7
	GV	Recreation	93	96	95	32.63	31.52	29.54	3.5	6.7	5.6
		All other G codes	10	10	9	84.10	79.60	50.67	5.7	57.1	19.7
H	Social Sciences		571	570	569	81.02	76.94	69.42	5.3	10.8	10.4
	H	General	32	31	29	75.36	70.79	72.21	6.5	-2.0	9.4
	HB-HC	Economic theory, hist. & cond.	52	49	50	112.39	95.45	88.32	17.8	8.1	7.6
	HD	Land, Agriculture, Industry	124	127	126	61.41	62.37	55.70	-1.5	12.0	6.5
	HE	Transportation & Communication	27	29	29	56.39	54.95	41.19	2.6	33.4	4.7
	HF	Commerce	98	97	96	72.91	65.76	57.98	10.9	13.4	7.7
	HG-HJ	Finance, Public finance	74	75	76	91.97	79.77	69.91	15.3	14.1	13.3
	HM	Sociology (General)	32	29	30	128.34	128.14	114.62	0.2	11.8	13.6
	HQ	Family, Marriage, Woman	48	46	46	81.83	98.25	83.45	-16.7	17.7	5.8
	HV	Social/public welfare, Criminology	51	52	50	90.45	90.86	86.30	-0.5	5.3	17.6
		All other H codes	33	35	37	68.73	61.37	63.92	12.0	-4.0	13.1
J	Political Science		79	78	79	66.51	59.79	55.37	11.3	8.0	10.6
K	Law		268	269	268	62.28	55.46	52.01	12.3	6.6	9.6
L	Education		186	185	184	63.61	59.57	52.92	6.8	12.6	7.6
M	Music		38	37	38	37.81	34.64	32.52	9.2	6.5	4.9
N	Fine Arts		80	78	79	41.63	39.45	37.88	5.5	4.2	4.0
P	Language and literature		222	223	224	41.45	37.99	35.85	9.1	6.0	3.2
	P	Philology & linguistics	17	17	18	80.41	73.76	63.94	9.0	15.4	10.9
	PN	Literary history	110	113	116	42.52	39.58	37.15	7.4	6.5	1.3
	PR-PS	English literature, American literature	45	45	41	26.53	24.29	23.77	9.2	2.2	3.8
		All other P codes	50	48	49	39.27	34.41	32.55	14.1	5.7	5.7
Q	Science		607	595	589	482.10	426.24	380.96	13.1	11.9	9.9
	Q	Science (General)	43	40	37	190.05	168.30	145.86	12.9	15.4	8.4
	QA	Mathematics	123	116	112	399.65	360.45	323.92	10.9	11.3	8.8
	QB	Astronomy	16	16	16	465.34	404.56	364.83	15.0	10.9	8.4
	QC	Physics	96	97	99	742.39	659.16	580.56	12.6	13.5	11.3
	QD	Chemistry	79	78	79	735.80	633.64	553.14	16.1	14.6	12.1
	QE	Geology	28	28	28	251.50	232.32	211.68	8.3	9.8	12.2
	QH	Natural History (incl. General Biology)	84	80	81	470.60	422.62	385.42	11.4	9.7	9.4
	QK	Botany	18	18	19	177.61	155.00	137.21	14.6	13.0	9.2
	QL	Zoology	51	53	53	352.89	283.78	236.23	24.4	20.1	13.3
	QP	Physiology	50	49	45	459.81	388.90	352.84	18.2	10.2	6.1
	QR	Microbiology	19	20	20	405.58	401.50	377.25	1.0	6.4	6.3
R	Medicine		262	271	279	163.63	155.41	139.26	5.3	11.6	9.2
	R	Medicine (General)	26	28	36	147.36	176.96	143.31	-16.7	23.5	6.8
	RA	Public aspects of medicine	38	38	34	137.00	123.68	135.90	10.8	-9.0	10.3
	RC	Internal medicine	101	107	110	164.63	160.05	140.15	2.9	14.2	9.0
	RD	Surgery	22	22	22	154.00	136.18	120.18	13.1	13.3	6.4
	RM	Therapeutics, Pharmacy	18	18	20	182.25	161.67	134.05	12.7	20.6	11.0
		All other R codes	57	58	57	184.86	162.59	146.19	13.7	11.2	11.1
S	Agriculture		214	213	215	70.57	62.42	57.07	13.1	9.4	8.6
	S	Agriculture (General)	67	70	70	83.32	71.60	67.17	16.4	6.6	13.3
	SB	Plant culture	43	45	46	70.19	62.01	53.85	13.2	15.1	8.8
	SF	Animal culture	75	73	72	48.93	41.61	38.77	17.6	7.3	3.9
		All other S codes	29	25	27	97.67	98.21	85.16	-0.6	15.3	3.7
T	Technology		577	586	591	209.31	177.43	160.17	18.0	10.8	8.6
	T	Technology (General)	28	28	28	125.80	103.89	118.75	21.1	-12.5	4.8
	TA	Engineering, Civil engineering	82	85	74	342.03	263.17	251.45	30.0	4.7	9.9
	TD	Environmental tech., Sanitary eng.	22	23	24	200.69	176.48	152.02	13.7	16.1	24.9
	TH	Building construction	26	26	27	80.60	78.76	64.77	2.3	21.6	9.3
	TJ	Mechanical engineering & machinery	52	52	57	288.08	260.58	233.46	10.6	11.6	9.3
	TK	Electricrical eng., Electronics	65	62	60	235.12	204.19	188.58	15.1	8.3	4.7
	TL	Motor vehicle, Aeronautics, Astronautics	27	28	29	99.44	90.85	83.46	9.4	8.9	11.9
	TN	Mining engineering, Metallurgy	37	40	41	340.63	312.90	242.33	8.9	29.1	-11.4
	TP	Chemical technology	74	77	83	325.50	268.24	229.57	21.3	16.8	8.6
	TS	Manufactures	65	65	65	104.60	84.82	67.36	23.3	25.9	7.3
	TT	Handicrafts, Arts & Crafts	28	31	31	29.23	26.76	25.15	9.2	6.4	2.3
	TX	Home Economics	42	39	42	69.90	51.73	53.01	35.1	-2.4	8.4
		All other T codes	29	30	30	86.21	76.86	68.30	12.2	12.5	20.6
U-V	Military Science, Naval Science		26	25	23	30.94	27.36	24.76	13.1	10.5	5.9
Z	Bibliography, Library Science		126	130	129	77.01	77.30	64.72	-0.4	19.4	11.9

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1. American Standards Institute. *American National Standard for Library and Information Sciences and Related Publishing Practices—Library Materials—Criteria for Price Indexes.* ANSI Z39.20-1983. New York, 1983.
2. Research Associates of Washington. *Higher Education Prices and Prices Indexes: 1990 Update.* Available from 2605 Klingle NW, Washington, DC 20008.
3. Consumer Price Index information obtained from the U.S. Bureau of Labor Statistics for the 1990 calendar year. For purposes of this study, the USPPI base period has been maintained to provide consistency with prior years' periodical price indexes. The CPI numbers were converted to a base year of 1977 by multiplying each index number by 100 and then dividing by the CPI for 1977 (181.5).
4. See previous editions of this study for 1985 and 1987 appearing in *LJ*, August 1985, p. 53–58, and April 15, 1987, p. 39–44, respectively.

Table 7: U.S. Periodicals: 1977–1992
Index of 100.0 Equivalent to Average Prices for 1977
Parenthetical Information Applies to 1992

YEAR	NO. OF TITLES	AVERAGE PRICE	PERCENT INCREASE	INDEX	YEAR	NO. OF TITLES	AVERAGE PRICE	PERCENT INCREASE	INDEX	YEAR	NO. OF TITLES	AVERAGE PRICE	PERCENT INCREASE	INDEX
U.S. PERIODICALS Excluding Soviet Translations **(115 titles dropped; 115 added; 49% of the titles increased in price)**					**CHEMISTRY & PHYSICS** **(1 title dropped; 1 added; 89% of the titles increased in price)**					**FINE & APPLIED ARTS** **(1 title dropped; 1 added; 38% of the titles increased in price)**				
1977	3,218	24.59	–	100.0	1977	135	93.76	--	100.0	1977	141	13.72	--	100.0
1984	3,731	54.97	9.4	223.5	1984	170	228.90	10.1	244.1	1984	145	26.90	6.9	196.1
1985	3,731	59.70	8.6	242.8	1985	170	238.43	4.2	254.3	1985	145	27.03	0.5	197.0
1986	3,731	65.00	8.9	264.3	1986	170	264.05	10.7	281.6	1986	145	28.28	4.6	206.1
1987	3,731	71.41	9.9	290.4	1987	170	294.05	11.4	313.6	1987	145	30.58	8.1	222.9
1988	3,731	77.93	9.1	316.9	1988	170	329.99	12.2	352.0	1988	145	32.43	6.0	236.3
1989	3,731	85.37	9.5	347.2	1989	170	367.99	11.5	392.5	1989	145	35.07	8.1	255.6
1990	3,731	93.45	9.5	380.0	1990	170	412.66	12.1	440.1	1990	145	36.89	5.2	268.9
1991	3,731	104.36	11.7	424.4	1991	170	472.84	14.6	504.3	1991	145	38.61	4.7	281.4
1992	3,731	117.11	12.2	476.2	1992	170	549.50	16.2	586.1	1992	145	41.15	6.6	299.9
U.S. PERIODICALS Including Soviet Translations **(118 titles dropped; 118 added; 51% of the titles increased in price)**					**CHILDREN'S PERIODICALS** **(4 titles dropped; 4 added; 40% of the titles increased in price)**					**GENERAL INTEREST PERIODICALS** **(4 titles dropped; 4 added; 33% of the titles increased in price)**				
1977	3,418	33.42	–	100.0	1977	67	5.82	--	100.0	1977	161	16.19	--	100.0
1984	3,942	72.47	10.2	216.8	1984	78	12.21	6.3	209.8	1984	181	27.90	5.6	172.3
1985	3,942	80.78	11.5	241.7	1985	78	13.31	9.0	228.7	1985	181	26.41	-5.3	163.1
1986	3,942	87.38	8.2	261.5	1986	78	13.76	3.4	236.4	1986	181	26.95	2.0	166.4
1987	3,942	96.36	10.3	288.3	1987	78	15.19	10.4	239.7	1987	181	27.79	3.1	171.7
1988	3,942	105.45	9.4	315.5	1988	78	16.39	7.8	281.5	1988	181	28.29	1.8	174.7
1989	3,942	114.07	8.2	341.3	1989	78	16.95	3.4	291.2	1989	181	29.69	5.0	183.4
1990	3,942	124.74	9.4	373.3	1990	78	17.51	3.3	300.9	1990	181	31.24	5.2	193.0
1991	3,942	138.53	11.1	414.5	1991	78	18.38	5.0	315.8	1991	181	32.25	3.2	199.2
1992	3,942	155.93	12.6	466.6	1992	78	19.48	6.0	334.7	1992	181	34.56	7.2	213.5
AGRICULTURE **(6 titles dropped; 6 added; 40% of the titles increased in price)**					**EDUCATION** **(8 titles dropped; 8 added; 47% of the titles increased in price)**					**HISTORY** **(1 title dropped; 1 added; 34% of the titles increased in price)**				
1977	138	11.58	--	100.0	1977	168	17.54	--	100.0	1977	138	12.64	--	100.0
1984	153	24.06	13.1	207.8	1984	203	34.01	8.5	193.9	1984	151	23.68	5.6	187.3
1985	153	26.05	8.3	225.0	1985	203	37.81	11.2	215.6	1985	151	25.55	7.9	202.1
1986	153	28.71	10.2	248.0	1986	203	40.47	7.0	230.7	1986	151	26.04	1.9	206.0
1987	153	31.14	8.4	268.9	1987	203	43.30	7.0	246.9	1987	151	27.64	6.2	218.7
1988	153	33.56	7.8	289.8	1988	203	47.95	10.7	273.4	1988	151	30.16	9.1	238.6
1989	153	36.62	9.1	316.2	1989	203	51.43	7.3	293.2	1989	151	32.27	7.0	255.3
1990	153	42.43	15.9	366.4	1990	203	56.33	9.5	321.2	1990	151	35.51	10.0	281.0
1991	153	42.36	-0.2	365.8	1991	203	62.43	10.8	355.9	1991	151	38.35	8.0	303.4
1992	153	49.48	16.8	427.3	1992	203	67.42	8.0	384.4	1992	151	43.27	12.8	342.3
BUSINESS & ECONOMICS **(8 titles dropped; 8 added; 44% of the titles increased in price)**					**ENGINEERING** **(14 titles dropped; 14 added; 57% of the titles increased in price)**					**HOME ECONOMICS** **(7 titles dropped; 7 added; 34% of the titles increased in price)**				
1977	236	18.62	--	100.0	1977	235	35.77	--	100.0	1977	74	18.73	--	100.0
1984	262	38.87	9.0	208.8	1984	265	78.70	7.5	220.0	1984	90	37.15	4.1	198.3
1985	262	44.41	14.3	238.5	1985	265	84.38	7.2	235.9	1985	90	41.04	10.5	219.1
1986	262	47.15	6.2	253.2	1986	265	92.66	9.8	259.0	1986	90	45.59	11.1	243.4
1987	262	50.39	6.9	270.6	1987	265	103.49	11.7	289.3	1987	90	48.67	6.8	259.9
1988	262	53.89	6.9	289.4	1988	265	114.83	11.0	321.0	1988	90	54.73	12.5	292.2
1989	262	57.93	7.5	311.1	1989	265	128.37	11.8	358.9	1989	90	60.92	11.3	325.3
1990	262	63.25	9.2	339.7	1990	265	138.84	8.2	388.2	1990	90	64.49	5.8	344.3
1991	262	70.87	12.1	380.6	1991	265	160.13	15.3	447.7	1991	90	74.11	14.9	395.7
1992	262	78.09	10.2	419.4	1992	265	192.77	20.4	538.9	1992	90	75.13	1.4	401.1

Table 7: U.S. Periodicals: 1977–1992 (continued)
Index of 100.0 Equivalent to Average Prices for 1977
Parenthetical Information Applies to 1992

INDUSTRIAL ARTS
(2 titles dropped; 2 added;
42% of the titles increased in price)

YEAR	NO. OF TITLES	AVERAGE PRICE	PERCENT INCREASE	INDEX
1977	87	14.37	--	100.0
1984	106	30.40	5.4	211.6
1985	106	35.09	15.4	244.2
1986	106	39.75	13.3	276.6
1987	106	41.45	4.3	288.4
1988	106	44.20	6.6	307.6
1989	106	48.68	10.2	338.8
1990	106	54.69	12.3	380.6
1991	106	60.96	11.5	424.2
1992	106	69.47	14.0	483.4

JOURNALISM & COMMUNICATIONS
(3 titles dropped; 3 added;
38% of the titles increased in price)

YEAR	NO. OF TITLES	AVERAGE PRICE	PERCENT INCREASE	INDEX
1977	85	16.97	--	100.0
1984	90	39.25	5.0	231.3
1985	90	46.08	17.4	271.5
1986	90	47.54	3.2	280.1
1987	90	50.66	6.6	298.5
1988	90	53.39	5.4	314.6
1989	90	58.13	8.9	342.6
1990	90	60.85	4.7	358.6
1991	90	62.81	3.2	370.1
1992	90	68.68	9.3	404.7

LABOR & INDUSTRIAL RELATIONS
(4 titles dropped; 4 added;
41% of the titles increased in price)

YEAR	NO. OF TITLES	AVERAGE PRICE	PERCENT INCREASE	INDEX
1977	61	11.24	--	100.0
1984	70	29.87	2.2	265.7
1985	70	34.75	16.3	309.2
1986	70	37.14	6.9	330.4
1987	70	38.65	4.1	343.9
1988	70	44.06	14.0	392.0
1989	70	50.65	15.0	450.6
1990	70	52.74	4.1	469.2
1991	70	57.59	9.2	512.4
1992	70	66.69	15.8	593.3

LAW
(6 titles dropped; 6 added;
31% of the titles increased in price)

YEAR	NO. OF TITLES	AVERAGE PRICE	PERCENT INCREASE	INDEX
1977	229	17.36	--	100.0
1984	273	31.31	5.6	180.4
1985	273	35.13	12.2	202.4
1986	273	36.44	3.7	209.9
1987	273	39.82	9.3	229.4
1988	273	43.33	8.8	249.6
1989	273	46.01	6.2	265.0
1990	273	50.32	9.4	289.8
1991	273	53.30	5.9	307.0
1992	273	60.53	13.6	348.7

LIBRARY & INFORMATION SCIENCES
(7 titles dropped; 7 added;
27% of the titles increased in price)

YEAR	NO. OF TITLES	AVERAGE PRICE	PERCENT INCREASE	INDEX
1977	89	16.97	--	100.0
1984	118	38.85	5.8	228.9
1985	118	40.66	4.7	239.6
1986	118	42.82	5.3	252.4
1987	118	48.42	13.1	285.3
1988	118	51.61	6.6	304.1
1989	118	54.45	5.5	320.8
1990	118	57.34	5.3	337.9
1991	118	62.73	9.4	369.6
1992	118	59.42	-5.3	350.2

LITERATURE & LANGUAGE
(2 titles dropped; 2 added;
44% of the titles increased in price)

YEAR	NO. OF TITLES	AVERAGE PRICE	PERCENT INCREASE	INDEX
1977	138	11.82	--	100.0
1984	158	23.02	8.6	194.8
1985	158	24.18	5.0	204.6
1986	158	25.21	4.2	213.3
1987	158	26.21	4.0	221.7
1988	158	28.04	7.0	237.3
1989	158	29.41	4.9	248.8
1990	158	30.63	4.1	259.1
1991	158	32.99	7.7	279.1
1992	158	35.77	8.4	302.6

MATHEMATICS, BOTANY, GEOLOGY, & GENERAL SCIENCE
(4 titles dropped; 4 added;
66% of the titles increased in price)

YEAR	NO. OF TITLES	AVERAGE PRICE	PERCENT INCREASE	INDEX
1977	185	47.13	--	100.0
1984	238	106.56	9.6	226.1
1985	238	116.93	9.7	248.1
1986	238	129.95	11.1	275.7
1987	238	146.08	12.4	310.0
1988	238	159.33	9.1	338.1
1989	238	173.21	8.7	367.5
1990	238	188.19	8.7	399.3
1991	238	209.55	11.3	444.6
1992	238	235.26	12.3	499.2

MEDICINE
(1 title dropped; 1 added;
83% of the titles increased in price)

YEAR	NO. OF TITLES	AVERAGE PRICE	PERCENT INCREASE	INDEX
1977	172	51.31	--	100.0
1984	182	125.57	11.4	244.7
1985	182	137.92	9.8	268.8
1986	182	151.77	10.0	295.8
1987	182	169.36	11.6	330.1
1988	182	180.67	6.7	352.1
1989	182	199.22	10.3	388.3
1990	182	217.87	9.4	424.6
1991	182	249.94	14.7	487.1
1992	182	276.01	10.4	537.9

PHILOSOPHY & RELIGION
(4 titles dropped; 4 added;
28% of the titles increased in price)

YEAR	NO. OF TITLES	AVERAGE PRICE	PERCENT INCREASE	INDEX
1977	107	10.89	--	100.0
1984	130	21.94	8.6	201.5
1985	130	24.30	10.8	223.1
1986	130	24.85	2.3	228.2
1987	130	25.60	3.0	235.1
1988	130	27.09	5.8	248.8
1989	130	28.62	5.6	262.8
1990	130	30.76	7.5	282.5
1991	130	32.91	7.0	302.2
1992	130	35.96	9.3	330.3

PHYSICAL EDUCATION & RECREATION
(9 titles dropped; 9 added;
34% of the titles increased in price)

YEAR	NO. OF TITLES	AVERAGE PRICE	PERCENT INCREASE	INDEX
1977	130	10.00	--	100.0
1984	151	20.54	7.7	205.4
1985	151	23.72	15.5	237.2
1986	151	24.78	5.3	249.8
1987	151	26.67	6.8	266.7
1988	151	28.60	7.2	286.0
1989	151	30.16	5.4	301.6
1990	151	32.20	6.8	322.0
1991	151	34.64	7.6	346.4
1992	151	35.81	3.4	358.1

POLITICAL SCIENCE
(1 title dropped; 1 added;
41% of the titles increased in price)

YEAR	NO. OF TITLES	AVERAGE PRICE	PERCENT INCREASE	INDEX
1977	123	14.83	--	100.0
1984	136	32.43	11.9	218.7
1985	136	32.72	0.9	220.6
1986	136	35.19	7.5	237.3
1987	136	39.95	13.5	269.4
1988	136	41.55	4.0	280.1
1989	136	45.03	8.4	303.6
1990	136	49.67	10.3	334.9
1991	136	52.81	6.3	356.1
1992	136	56.93	7.8	383.9

PSYCHOLOGY
(5 titles dropped; 5 added;
81% of the titles increased in price)

YEAR	NO. OF TITLES	AVERAGE PRICE	PERCENT INCREASE	INDEX
1977	110	31.74	--	100.0
1984	138	69.74	17.6	219.7
1985	138	76.34	9.5	240.5
1986	138	83.71	9.7	263.7
1987	138	92.05	10.0	290.0
1988	138	100.57	9.3	316.8
1989	138	114.52	13.9	360.8
1990	138	125.31	9.4	394.8
1991	138	135.40	8.0	426.6
1992	138	145.22	7.3	457.5

SOCIOLOGY & ANTHROPOLOGY
(12 titles dropped; 12 added;
63% of the titles increased in price)

YEAR	NO. OF TITLES	AVERAGE PRICE	PERCENT INCREASE	INDEX
1977	128	19.68	--	100.0
1984	149	43.87	8.2	222.9
1985	149	50.87	16.0	258.5
1986	149	56.31	10.7	286.1
1987	149	60.29	7.1	306.4
1988	149	64.27	6.6	326.6
1989	149	66.73	3.8	339.1
1990	149	77.61	16.3	394.4
1991	149	88.69	14.3	450.7
1992	149	91.19	2.8	463.4

SOVIET TRANSLATIONS
(3 titles dropped; 3 added;
98% of the titles increased in price)

YEAR	NO. OF TITLES	AVERAGE PRICE	PERCENT INCREASE	INDEX
1977	200	175.41	--	100.0
1984	211	381.86	12.0	217.7
1985	211	453.47	18.8	258.5
1986	211	483.09	6.5	275.4
1987	211	537.54	11.3	306.4
1988	211	592.22	10.2	337.6
1989	211	621.70	5.0	354.4
1990	211	678.09	9.1	386.6
1991	211	742.80	9.5	423.5
1992	211	842.42	13.4	480.3

ZOOLOGY
(1 title dropped; 1 added;
64% of the titles increased in price)

YEAR	NO. OF TITLES	AVERAGE PRICE	PERCENT INCREASE	INDEX
1977	81	33.69	--	100.0
1984	94	78.35	10.8	232.6
1985	94	90.75	15.8	269.4
1986	94	102.83	13.3	305.2
1987	94	112.91	9.8	335.1
1988	94	127.33	12.8	378.0
1989	94	142.13	11.6	421.9
1990	94	153.78	8.2	456.5
1991	94	172.56	12.2	512.2
1992	94	197.89	14.7	587.4

Prices are going up, but at a more modest rate

SERIAL SERVICES 1992

By Andrew Shroyer & Laura Nanna

U.S. SERIAL SERVICES 29th ANNUAL Survey

THIS IS THE 29th annual survey of the U.S. Serial Services, a product of the American Library Association's Association for Library Collections and Technical Services (ALA/ALCTS) Library Materials Price Index Committee (LMPIC), working in conjunction with The Faxon Company.

The index was produced in accordance with the American National Standard for Library and Information Sciences and Related Publishing Practice—Library Materials—Criteria for Price Indexes (ANSI Z39.20—1983). In this standard, a U.S. Serials Service is defined as "a periodical publication that revises, cumulates, abstracts, or indexes information in a specific field on a regular basis by means of new or replacement issues, pages, or cards, intended to provide information otherwise not readily available."

Roughly half of the title price information for the survey sample comes from the Faxon serial subscription database. The rest had to be compiled manually from publisher lists, prices in the issues themselves, calls to publishers, or from library subscription records. In addition, new titles were added to the sample to replace titles that had discontinued publication since the 28th survey.

The data as computed by Faxon indicate that the 1992 composite average price for the U.S. Serial Services in our study sample is $445.37 (Table 1). This represents an eight percent increase over 1991, down from the 9.3 percent composite increase shown in last year's study.

Separate figures for the six subject areas (Tables 2–7) show that the title sample in the "Law" category underwent more increases than other categories, with a ten percent average increase, and that the "Science and Technology" category follows closely with a 9.4 percent average increase. The most modest increases are in the "U.S. Documents" category, with a 4.1 percent average increase over 1991.

The "Wilson Index" (Table 8), compiled separately by the H.W. Wilson Company (on the basis of prices paid by subscribers, divided by the total number of subscribers), shows an average price of $281.73 for 1991 Wilson serial services, a 7.1 percent increase over 1991.

By decision of ALA/ALCTS, the title sample within the "Law" category is being substantially revised, to remedy possible regional biases and disproportionate representation of certain publishers' titles in the current sample. The adoption of a revised sample, which was originally to have been reflected in the 1992 survey, is now scheduled to be in place by the 1993 study.

(Continued on p. 64)

Andrew Shroyer is Serials Cataloger and Laura Nanna is Assistant Head of Acquisitions, University of California,

U.S. Serial Services: 1977–1992
Index of 100.0 Equivalent to Average Prices for 1977
Parenthetical Information Applies to 1992

Table 1:
U.S. SERIALS SERVICES

**(excluding "Wilson Index";
excluding Soviet Translations as of 1988)
(53 titles dropped; 40 titles added)**

YEAR	NO. OF TITLES	AVERAGE PRICE	PRICE CHANGE	INDEX
1977	1,432	$142.27	--	100.0
1978	1,426	153.95	8.2	108.2
1979	1,450	171.06	11.1	120.2
1980	1,470	194.21	13.5	136.5
1981	1,477	219.75	13.2	154.5
1982	1,494	244.52	11.3	171.9
1983	1,525	274.72	12.4	182.1
1984	1,537	295.13	7.4	207.4
1985–87	n/a	n/a	n/a	n/a
1988	1,310	341.32	n/a	239.9
1989	1,308	363.20	6.4	255.3
1990	1,308	377.24	3.9	265.2
1991	1,307	412.38	9.3	289.9
1992	1,294	445.37	8.0	313.0

Table 2:
BUSINESS

(8 titles dropped; 5 titles added)

YEAR	NO. OF TITLES	AVERAGE PRICE	PRICE CHANGE	INDEX
1977	255	$216.28	–	100.0
1978	262	222.45	2.9	102.9
1979	270	249.05	12.0	115.2
1980	279	294.00	18.0	135.9
1981	271	343.29	16.8	158.7
1982	276	371.03	8.1	171.6
1983	286	417.83	12.6	193.2
1984	289	437.07	4.6	202.1
1985–87	n/a	n/a	n/a	n/a
1988	281	458.33	n/a	211.9
1989	281	493.23	7.6	228.1
1990	281	523.79	6.2	242.2
1991	281	584.93	11.7	270.5
1992	278	625.67	7.0	289.3

Table 3:
GENERAL & HUMANITIES

(3 titles dropped; 3 titles added)

YEAR	NO. OF TITLES	AVERAGE PRICE	PRICE CHANGE	INDEX
1977	113	$90.44	--	100.0
1978	113	94.88	4.9	104.9
1979	114	118.83	25.2	131.4
1980	118	124.28	4.6	137.4
1981	120	142.04	14.3	157.1
1982	119	160.03	12.7	176.9
1983	120	186.67	16.6	206.4
1984	122	196.55	5.3	217.3
1985–87	n/a	n/a	n/a	n/a
1988	116	225.95	n/a	249.8
1989	116	255.27	13.0	282.3
1990	116	274.39	7.5	303.4
1991	116	292.23	6.5	323.1
1992	116	317.15	8.5	350.7

Table 4:
LAW

(12 titles dropped; 6 titles added)

YEAR	NO. OF TITLES	AVERAGE PRICE	PRICE CHANGE	INDEX
1977	229	$126.74	--	100.0
1978	235	137.91	8.8	108.8
1979	241	158.65	15.0	125.2
1980	248	184.38	16.2	145.5
1981	251	212.85	15.4	167.9
1982	256	232.61	9.3	183.5
1983	268	249.64	7.3	197.0
1984	272	275.23	10.3	217.2
1985–87	n/a	n/a	n/a	n/a
1988	265	338.13	n/a	266.8
1989	265	354.32	4.8	279.6
1990	264	390.98	10.3	308.5
1991	264	424.68	8.6	335.1
1992	258	467.27	10.0	368.7

Table 5:
SCIENCE & TECHNOLOGY

(17 titles dropped; 16 titles added)

YEAR	NO. OF TITLES	AVERAGE PRICE	PRICE CHANGE	INDEX
1977	297	$141.16	--	100.0
1978	289	160.61	13.8	113.8
1979	290	173.96	8.3	123.2
1980	288	191.35	10.0	135.6
1981	287	214.01	11.8	151.6
1982	286	229.98	7.5	162.9
1983	282	270.94	17.8	191.9
1984	281	295.36	9.0	209.2
1985–87	n/a	n/a	n/a	n/a
1988	302	378.37	n/a	268.0
1989	302	420.19	11.1	297.7
1990	303	443.36	5.5	314.1
1991	302	483.90	9.1	342.8
1992	301	529.35	9.4	375.0

Table 6:
SOCIAL SCIENCES

(7 titles dropped; 5 titles added)

YEAR	NO. OF TITLES	AVERAGE PRICE	PRICE CHANGE	INDEX
1977	134	$145.50	--	100.0
1978	136	153.94	5.8	105.8
1979	139	169.55	10.1	116.5
1980	143	190.07	12.1	130.6
1981	144	215.12	13.2	147.8
1982	149	249.03	15.8	171.2
1983	159	266.43	7.0	183.1
1984	159	283.82	6.5	195.1
1985–87	n/a	n/a	n/a	n/a
1988	154	343.18	n/a	235.9
1989	154	345.10	0.6	237.2
1990	156	370.40	7.7	254.6
1991	156	398.76	7.7	274.1
1992	154	420.24	5.4	288.8

Table 7:
U.S. DOCUMENTS

(6 titles dropped; 5 titles added)

YEAR	NO. OF TITLES	AVERAGE PRICE	PRICE CHANGE	INDEX
1977	204	$62.88	--	100.0
1978	196	72.52	15.3	115.3
1979	198	75.87	4.6	120.7
1980	197	78.87	4.0	125.4
1981	200	84.48	7.1	134.4
1982	202	99.05	17.2	157.5
1983	203	101.24	2.2	161.0
1984	203	97.37	-3.8	154.9
1985–87	n/a	n/a	n/a	n/a
1988	190	101.88	n/a	162.0
1989	188	110.79	8.7	176.2
1990	188	101.45	-8.4	161.3
1991	188	107.74	6.2	171.3
1992	187	112.18	4.1	178.4

Table 8:
WILSON INDEX

YEAR	NO. OF TITLES	AVERAGE PRICE	PRICE CHANGE	INDEX
1977	18	$87.51	--	100.0
1978	18	95.99	9.7	109.7
1979	19	104.68	9.1	119.6
1980	19	114.05	9.0	130.3
1981	19	122.30	7.2	139.8
1982	19	132.55	8.4	151.5
1983	19	139.93	5.6	159.9
1984	19	155.77	11.3	178.0
1985	19	176.98	13.6	202.2
1986	19	193.54	9.4	221.2
1987	19	203.59	5.2	232.6
1988	19	212.17	4.2	242.5
1989	19	225.21	6.1	257.4
1990	19	237.99	5.7	272.0
1991	19	262.97	10.5	300.5
1992	19	281.73	7.1	321.9

A Survey on Our Survey

LJ would like to hear comments about the format of our annual Periodical Price Index and Serial Services surveys. Would more trends commentary be desirable? What data tables are most useful? Least useful? Please send your comments to Judy Quinn, News & Features Editor, *LJ*, 249 W. 17th Street, New York, NY 10011; FAX 212-463-6734.

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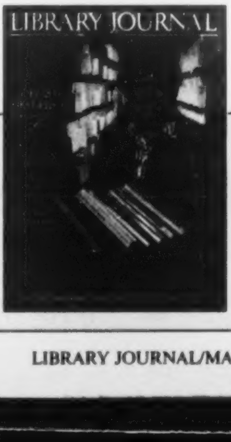

Rensselaer's Marilyn Moody offers a new spin on some reference materials we often take for granted. Instead of seeking out government documents last, she suggests we now consider them our "Source of First Resort," page 36.

PHOTOGRAPH BY MARTIN BENJAMIN

May 15, 1992

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Music CDs Heading to the Top of the Library Charts

Libraries will be spending 57 percent of their music audio budgets on compact discs (CDs) this fiscal year, compared to three percent on LPs and 40 percent on audiocassettes, according to a recent *Library Journal* survey. *LJ* surveyed 1000 public libraries to see how music collections are evolving, and if this form of entertainment is still a staple of patron use.

The total materials budgets of libraries responding range from $10,000 to over $1 million. These libraries are currently spending 75 percent of their budgets on books and nine percent on audiovisual programs.

A shortened life for LPs

Libraries expect to increase their expenditures on music CDs to 61 percent of the total music audio budget in the next fiscal year. Though most libraries collecting music audio currently have more LPs than any other format (average of 2,708 LPs to 1,727 cassettes and 1,132 CDs), 88 percent have begun to phase out their LP collections in favor of the newer formats.

The increase in CD purchases is due predominantly to increased patron demand—an 88 percent increase for music CDs over other formats. Said one respondent, "We have a large LP collection, but demand is increasing for CDs and future demand looks high." Said another, "As we build our CD collection, we are weeding the LPs. Their circulation has decreased quite a bit over the years while CDs are booming!"

When buying new programs or replacing LP versions, libraries often choose CDs because of their current affordability. Most librarians have also found CDs to be superior to LPs and cassettes in terms of sound quality and durability (88 percent).

A harmonious collection despite cuts

The current recession will certainly affect how well libraries can meet demand. Fifty-six percent of libraries responding have experienced some budget cuts in the current fiscal year and 61 percent of those libraries lost money from their audiovisual coffers. Libraries indicated that when buying CDs, discounted CDs are a first choice. But more money will be spent on music CDs if necessary to comply with user requests. One librarian also noted, "We try to budget to meet demand and plan in advance. But we may transfer some video money to CD just because of space considerations."

Most of the respondents (52 percent) feel their collections should be well balanced and offer a broad spectrum of music types. The collections surveyed include classical, jazz, pop/rock, country, and R&B music with lesser coverage of international, folk, New Age, and show music.

The largest percentage (84.5 percent) of libraries that collect music audio use the same lending policy for CDs as for books. Some libraries (7.5 percent) limit the number of CDs that can be borrowed at any time; only 1.1 percent say they charge patrons a fee to borrow CDs. For some specifics on CD collection development, see Bruce Connolly's "Boxed Sets" on p. 46.

Percent of Libraries with Music Audio Budgets in FY91/92

	TOTAL MATERIALS BUDGET						
Audio Budget	**$10,000–24,999**	**$25,000–49,999**	**$50,000–99,999**	**$100,000–249,999**	**$250,000–499,999**	**$500,000–999,999**	**$1 million or more**
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Less than $500	45.8	11.5	0.0	0.0	0.0	0.0	0.0
$500–999	12.5	26.9	7.5	0.0	0.0	0.0	0.0
$1,000–2,499	12.5	36.5	40.0	20.5	9.1	11.1	0.0
$2,500–4,999	4.2	0.0	30.0	36.4	0.0	0.0	12.5
$5,000–7,499	0.0	1.9	10.0	18.2	22.7	11.1	25.0
$7,500–9,999	0.0	0.0	2.5	6.8	13.6	0.0	12.5
$10,000 or more	4.2	0.0	0.0	9.1	45.5	44.4	50.0

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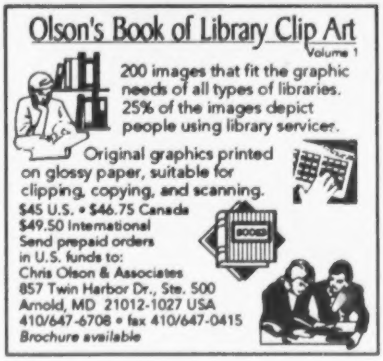

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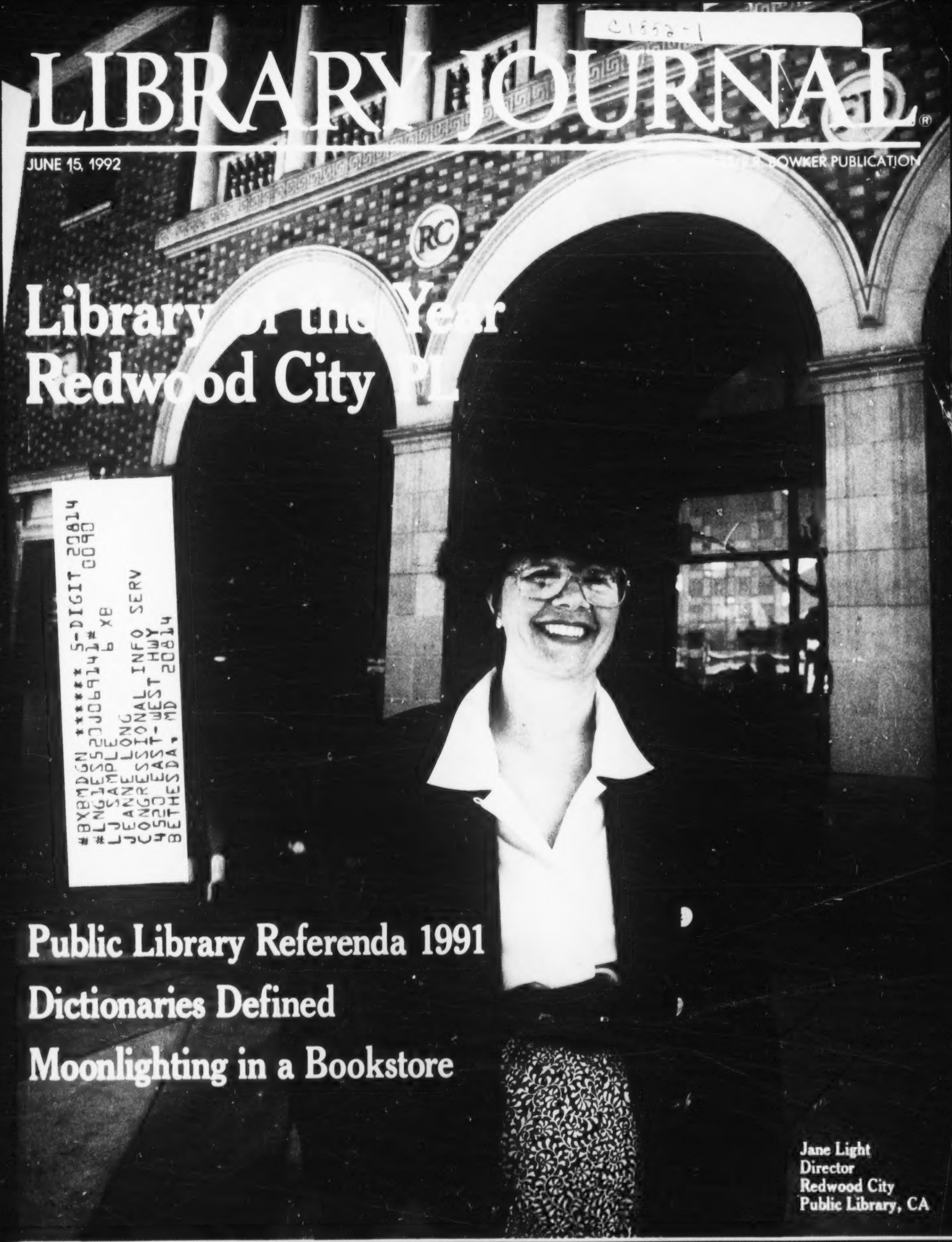

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The Redwood City Public Library has been selected as the first Gale/LJ Library of the Year. This California library offers the service, creativity, and leadership that exemplifies the best in our nation's libraries. See its story on p. 32.

PHOTOGRAPH BY RICK BROWNE

June 15, 1992

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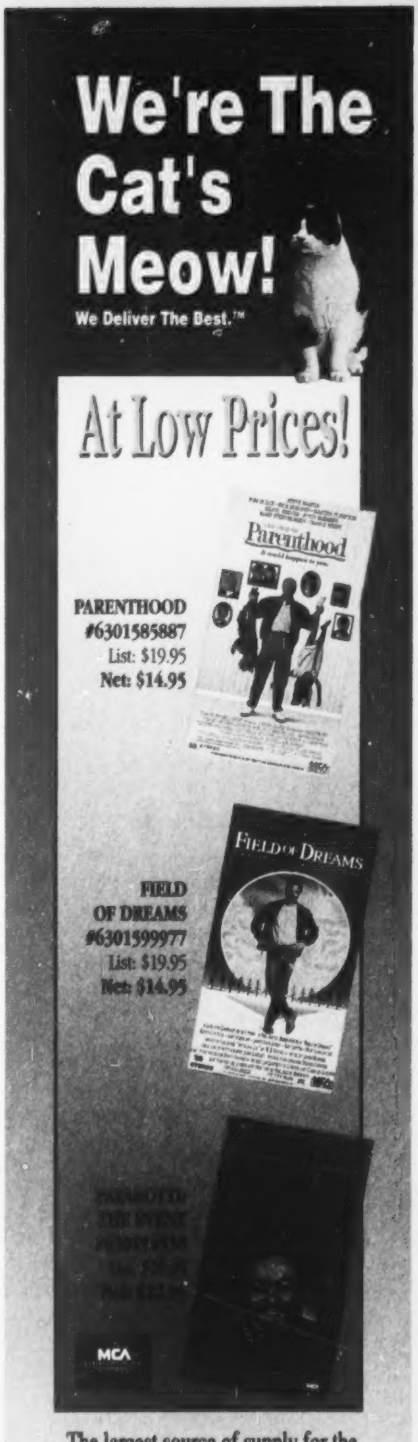
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85 Percent Approved

Public Library Referenda 1991

By Richard B. Hall

DESPITE WIDESPREAD cuts to library budgets, 85 percent of the referenda to build or renovate public libraries held between July 1, 1990 and June 30, 1991 passed. On this front at least, the future of libraries is still relatively bright. The success rate is slightly above the 80 percent success rate for the combined data collected for the period 1987–91. The long-term data continue to show that the chances of success for library capital campaigns are approximately four to one. It will be interesting to see if there is a significant change next year when the data more fully reflect our national recession.

In 1991, the level of funds voters were asked to approve increased dramatically, from $183 million in 1990 to $348 million. A five-year summary of referenda (Table 2, p. 42) shows that a total of $1.3 billion has been voted on during 1987–91, with an average of approximately $260 million per year. Only in 1989 was the figure higher than in 1991. As this summary shows, there is not enough data to determine a general trend but only a series of "peaks and valleys" showing the rise and fall of the amount of funding proposed in referenda for library construction nationwide. Interestingly, this contrasts with the relatively stable number of referenda reported for the past five years—an average of 49 per year.

Of the $348 million attempted in 1991, $315 million (90 percent) was approved and approximately $33 million (ten percent) was turned down by voters. The 90 percent amount approved is a big improvement over 1990 and well above the five-year combined amount of 80 percent. It is encouraging to see that the vast majority of funds requested by the referenda process for public library facilities have been approved by the voters. In the past five years alone, over $1 billion has been approved for public library construction projects.

In this year's survey, a total of 46 local referenda were reported (see Table 1), with 39 passing and only seven failing. When the percentages of votes for and against all of the 1991 referenda are averaged, the national percentage of passage is 63 percent, which is slightly below the five-year combined data rate of 64 percent—just short of a two-thirds approval rate. Further, the five-year data show that the rate has consistently remained between 60 and 70 percent.

A Florida tale of woe

The referenda story is by no means all good news. The failure of the three referenda in Florida struck an unpleasant chord. Director Robert Lipscomb of the Central Florida Regional Library in Ocala and Director James Wheeler of the Volusia County Public Library System in Daytona Beach (the New Smyrna Beach Brannon Memorial Branch and the proposed Port Orange Regional Library are both part of this system) offered some explanations for the results but neither showed optimism about the future of Florida libraries.

Lipscomb cited a poor climate in Florida for any increased government spending. Though his library mounted a well-organized, modestly proposed campaign, an equally well-organized opposition (from big business to people not wanting to increase their taxes) helped defeat it. The Gulf War and the resultant rise in gas prices didn't help either. Said Lipscomb, "We won't witness a successful bond referendum in Florida for several years."

Wheeler's is a countywide system where people in the cities are asked to fund buildings used by residents outside the local taxing district. The county council will now have to address a new manner of funding. The defense industry and tourism are suffering in this region, and in this election year, no officials will sponsor new taxes of any kind. Though the population of Florida has more than doubled in the past 20 years, the library square footage per capita is below the national standard.

[In-depth profiles of successful referenda campaigns at the Spokane Public Library and Denver Public Library appear in two sidebars on the following four pages. The analysis of the data continues on p. 42.]

Richard B. Hall is Library Construction Bond Act Manager, California State Library, Sacramento

Table 1: Referenda for Public Library Buildings 1991

Community	Library	Vote		Amount of Referendum	General Special	Other Ballot Items
		For	Against			
CALIFORNIA						
Los Altos	Santa Clara Cty. Lib.	74 %	26 %	$3,715,000	G	Y
Oakland	Oakland PL	81	19	1,500,000	G	Y
Rolling Hills Estates	Palos Verdes Lib.	70	30	16,000,000	G	N
COLORADO						
Denver	Denver PL	75	25	91,600,000	G	Y
FLORIDA						
*New Smyrna Beach	Brannon Memorial Lib.	31	69	3,400,000	S	N
*Ocala	Central Florida Reg. Lib.	30	70	14,100,000	G	N
*Port Orange	Port Orange Reg. Lib.	42	58	3,100,000	S	N
GEORGIA						
Quitman	Brooks Cty. Lib.	57	43	336,442	G	Y
IDAHO						
Hayden	Kootenai Cty. Libs.	83	17	2,400,000	S	N
*Council Bluffs	Free PL	46	54	4,900,000	S	N
IOWA						
Boone	Ericson PL	71	29	2,700,000	S	Y
KANSAS						
Norton	Norton PL	77	23	650,000	G	N
LOUISIANA						
St. Martinville	St. Martin Parish Lib.	72	28	1,825,000	G	N
MARYLAND						
Hyattsville	Prince George's Cty. Mem.	75	25	12,867,000	G	Y
Towson	Baltimore Cty. PL	56	44	2,050,000	G	Y
MASSACHUSETTS						
Halifax	Holmes PL	71	29	389,000	S	Y
Kingston	Frederic C. Adams PL	99	1	75,000	G	Y
West Tisbury	West Tisbury PL	64	36	95,000	G	Y
Weston	Weston PL	100	0	3,700,000	G	Y
MICHIGAN						
Marlette	Marlette District Lib.	75	25	120,000	G	N
MINNESOTA						
Ada	Ada PL	58	42	250,000	S	N
Benson	Benson PL	54	46	250,000	S	N
Rochester	Rochester PL	59	41	14,000,000	G	Y
NEVADA						
Las Vegas	Las Vegas/Clark Cty. Lib.	51	49	70,000,000	G	Y
NEW YORK						
Farmingdale	Farmingdale PL	56	44	8,820,000	S	N
Hewlett	Hewlett-Woodmere PL	56	44	775,000	G	N
NORTH CAROLINA						
*Chapel Hill	Chapel Hill PL	49	51	3,000,000	G	N
Greensboro	Greensboro PL	65	35	16,060,000	G	Y
OHIO						
Garettsville	Portage Cty. District Lib.	54	46	910,000	G	Y
Tipp City	Tipp City PL	67	33	300,000	G	N
Twinsburg	Twinsburg PL	75	25	2,600,000	S	N
Willoughby	Willoughby-Eastlake PL	57	43	4,000,000	G	N
OKLAHOMA						
Stillwater	Stillwater PL	67	33	4,980,000	S	N
OREGON						
Lincoln City	Driftwood Lib. of Lincoln City	63	37	600,000	G	N
PENNSYLVANIA						
*Dresher	Upper Dublin PL	45	55	3,500,000	G	Y
SOUTH CAROLINA						
Conway	Horry Cty. PL	100	0	4,000,000	S	Y
TENNESSEE						
Kingston	Kingston City Lib.	61	39	564,000	G	N
TEXAS						
Baytown	Sterling Municipal Lib.	64	36	1,870,700	S	Y
Grand Prairie	Grand Prairie Mem. Lib.	54	46	2,700,000	S	Y
Plano	Plano PL	51	49	6,600,000	S	Y
San Marcos	San Marcos PL	53	47	2,135,000	G	Y
VIRGINIA						
*Christiansburg	Montgomery-Floyd Reg. Lib.	46	54	1,400,000	G	Y
Fredericksburg	Central Rappahannock Lib.	56	44	1,350,000	G	Y
WASHINGTON						
Ferndale	Ferndale Lib.	63	37	1,250,000	G	Y
Spokane	Spokane PL	65	35	28,883,000	G	N
Vancouver	Fort Vancouver Reg. Lib.	64	36	2,100,000	S	Y
TOTALS	**45**	**63 %**	**37 %**	**$348,420,142**	**G65%/S35%**	**Y54%/N46%**

*Referenda that failed

Public Library Referenda 1991

In 1991, 65 percent of the referenda were held during general elections, which is slightly above the five-year combined percentage of 64 percent. In comparing the success rates of referenda held during special elections and those held during general elections, it appears that special elections have an edge overall for the five-year period. Yet in 1991, referenda held during general elections fared slightly better. This year, 81 percent of the referenda held during special elections passed compared to 87 percent of those held during general elections. This is comparable with the combined five-year success rate of 83 percent for special elections and 78 percent for general elections. Of the seven referenda that failed in 1991, 57 percent (four) of them were held during general elections. In contrast, of the 50 unsuccessful referenda held over the five-year data collection period, 70 percent were held during general elections.

Seasonal considerations

While special elections may have a slight advantage over general elections for library capital campaigns, the time of the year of the election also seems to have an impact on the probability of success. Table 3 shows the percentage of referenda that passed or failed during the four seasons.

For the combined data, summer, fall, and winter all have, on average, a success rate of just below 90 percent. The only significant variation is for the spring, which drops to only 68 percent. Of the referenda that failed, 62 percent were held in the spring. While the data for 1991 do not show this deviation in the spring, it is worthwhile to continue to monitor the seasonal success rate since only five years of data have been collected. However, it appears that a trend in the data may be emerging, and for this reason, library boards may want to exercise caution before proceeding with a referendum in the spring.

With respect to competition from other capital improvement items on the ballot, in 1991, 92 percent of those with competition passed, while only 76 percent of the referenda without competition passed. This is an unusual turn of events for 1991. For the five-year combined data, 77 percent passed with competition and 81 percent passed without competition. Looking back over the individual years of data collection, there are substantial differences in these percentages. But when the five years' worth of data are taken as a whole, the variation does not appear to be particularly significant, though those referenda without competition appear to have a slight advantage.

Table 3: Referenda Pass/Fail Ratio by Season

	Data 1991		Data 1987–91	
Season	Pass	Fail	Pass	Fail
Spring	83%	17%	68%	32%
Summer	100	0	89	11
Fall	81	19	86	14
Winter	83	17	91	9

Table 4: Library Referenda by Authorizing Agency

Agency	1991 Data	1987–91 Combined Data
Municipality	41%	42%
New England town	11	18
County	20	16
School district	11	11
Library district	13	9
Township	0	1
City/County	2	1
Parish	2	1
Village	0	.5
Special Authorities	0	.5

Table 4 shows the allocation of the referenda by the authorizing agency. For the combined data, municipalities lead with 42 percent. When combined with New England towns, the figure increases to 60 percent. For the remaining referenda, counties account for 16 percent, school and library districts for 11 and nine percent, respectively—a total of another 36 percent—with four percent spread out over various miscellaneous authorities.

Bonds are still in

Bond issues continue to be the most popular method of financing public library buildings. Eighty-three percent of the referenda for 1991 and 82 percent for the combined years of 1987–91 resulted in the issuance of bonds. As in the past, almost all of the bond issues were for general obligation (GO) bonds. For the five-year combined data, 12 percent of the referenda were followed by specific property (millage, etc.) tax increases to cover the costs of the buildings and four percent of the referenda resulted in an increase in the sales tax. The remainder resulted in mortgages or excise taxes.

The use of referenda to fund capital improvements for public libraries appears to have been alive and well in 1991. There are phenomenal success stories being reported from all over the country, like those in Spokane and Denver, which have recently tasted the fruits of victory with very significant approval rates of 65 and 75 percent, respectively (see p. 38 and 40). In both cases, library supporters assessed their local situations, planned accordingly by establishing a strategy, and then implemented a campaign that communicated the campaign message to the voters in an effective and efficient manner. It is particularly important to note that in each of these campaigns, understanding the community, as well as community involvement in both the needs assessment and the campaign, was critical to success.

Table 2: Five-Year Summary of Referenda for Public Library Buildings

		Percentage		Amount	Vote		Election		Other Ballot Items	
Year	No.	Pass	Fail		For	Against	Gen.	Spec.	Yes	No
1991	46	85%	15%	$348,420,142	63%	37%	65%	35%	54%	46%
1990	49	80	20	182,755,394	65	35	59	41	51	49
1989	51	75	25	394,759,648	61	39	65	35	41	59
1988	45	64	36	136,475,602	61	39	60	40	58	42
1987	54	93	7	241,927,899	69	31	69	31	67	33
ALL	245	80	20	1,306,338,685	64	36	64	36	54	46
AVG.	49			261,267,737						

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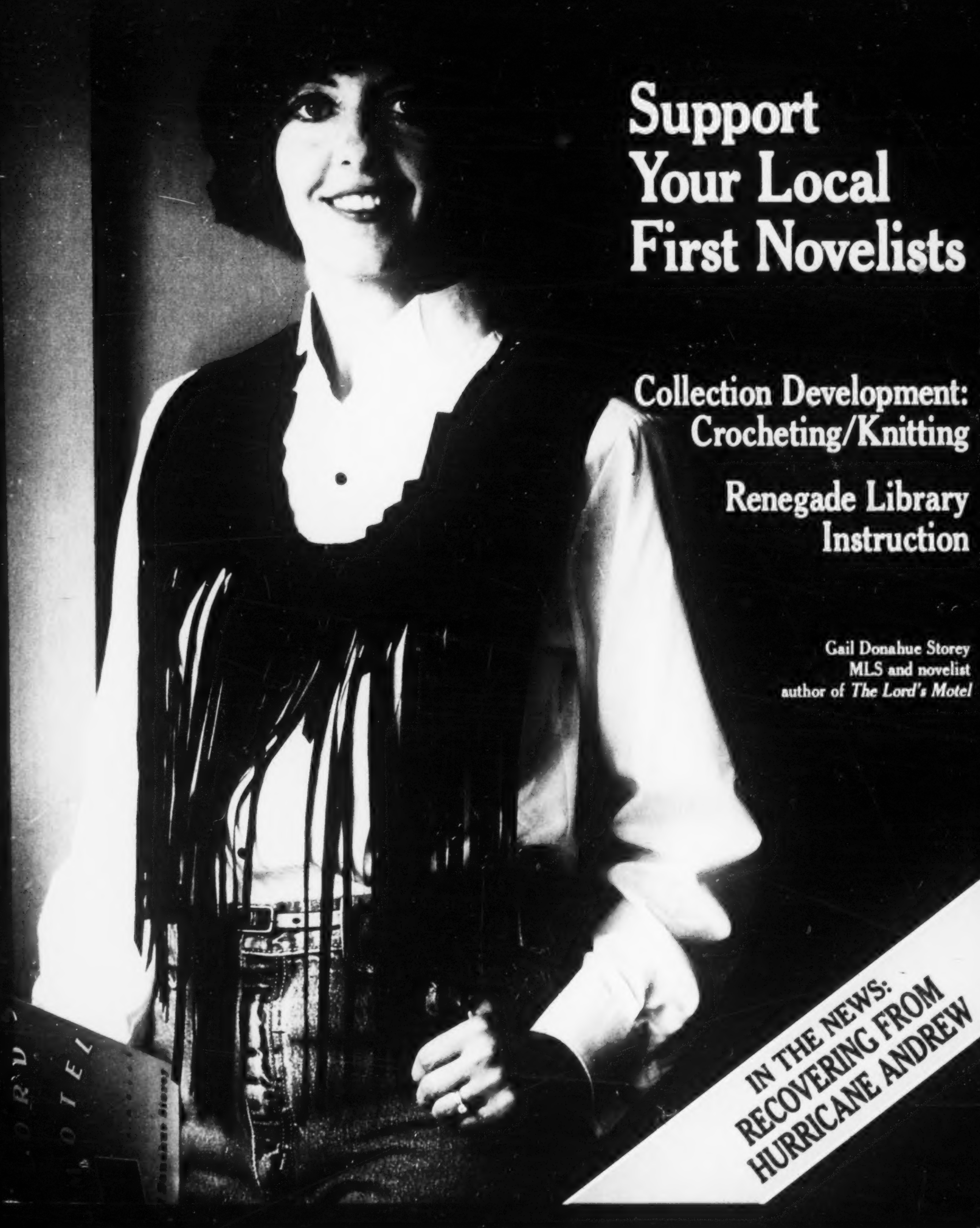

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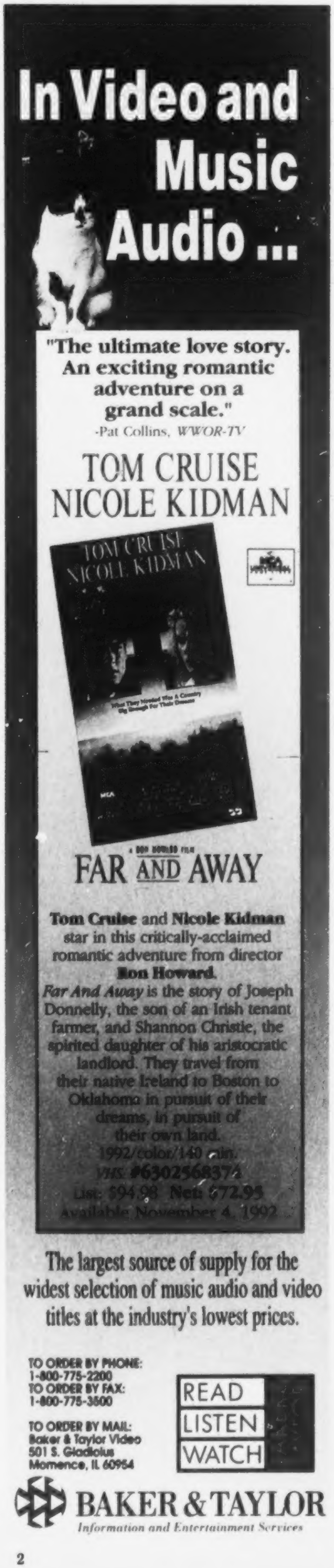

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LIBRARY

FEATURES

First Novels: Wrapping Up Last Season 43
BY BARBARA HOFFERT Which novels from spring/summer 1992 made big impressions?

Mapping This Season's First Novels 46
COMPILED BY ANN BURNS And which fall/winter 1992–93 debuts are yet to impress?

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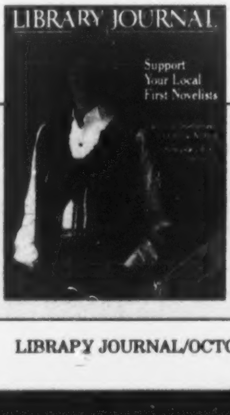

First novelists hail from all professions, including librarianship. Gail Donahue Storey has an MLS and a new novel to her credit. For Barbara Hoffert's wrap-up of last season's authors and our map to this season's talent, see page 43.

PHOTOGRAPH BY RICK DIERINGER

October 1, 1992

JOURNAL®

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Mapping This Season's

Once again, we're dividing up our map of first novelists by region rather than by state so that librarians can see a wider array of local talent. Given the stiff competition that always prevails among novelists during the pre-Christmas rush, the number of aspiring writers publishing this season (September 1, 1992–January 31, 1993) is smaller than last (February 2–August 31, 1992): Only 95 novels will debut, compared with last season's 157. But who's counting? There's plenty of good reading here for every type of reader in every region.

INTERNATIONAL

AUSTRALIA
Simon Loys
The Death of
Napoleon
(*Farrar—Sept.*)
(*LJ* 8/92)

Patricia Shaw
River of the Sun
(*St. Martin's—Dec.*)

CANADA
Cecil Foster
No Man in the House
(*Ballantine—Oct.*)

ENGLAND
Elspeth Barker
O Caledonia
(*HBJ—Sept.*)

Simi Bedford
Yoruba Girl Dancing
(*Viking—Oct.*)
(*LJ* 9/1/92)

Timothy d'Arch Smith
Alembic
(*Dalkey Archive
Pr.—Oct.*)
(*LJ* 6/15/92)

Rupert Everett
Hello Darling,
Are You Working?
(*Morrow—Sept.*)
(*LJ* 8/92)

Colin McDowell
A Woman of Style
(*Crown—Oct.*)
(*LJ* 9/1/92)

Lawrence Norfolk
Lempriere's
Dictionary
(*Harmony: Crown—
Sept.*) (*LJ* 6/15/92)

Iain Pears
The Raphael Affair
(*HBJ—Oct.*)

Veronica Stallwood
Deathspell
(*Scribner—Oct.*)
(*LJ* 9/1/92)

ESTONIA
Jaan Kross
The Czar's Madman
(*Pantheon—Jan.*)

HONDURAS
Roberto Quesada
The Ships
(*Four Walls Eight
Windows—Sept.*)
(*LJ* 8/92)

JAPAN
Banana Yoshimoto
Kitchen
(*Grove Pr.—Jan.*)

MEXICO
Laura Esquivel
Like Water for
Chocolate
(*Doubleday—Oct.*)
(*LJ* 9/1/92)

NEW ZEALAND
Rose Beecham
Introducing Amanda
Valentine
(*Naiad Pr.—Sept.*)

RUSSIA
Victor Erofeyev
Moscow Beauty
(*Viking—Jan.*)

WEST

Dale Brandon
Dead Fall
(*Walker—Nov.*)
California
(*LJ* 8/92)

Denise Dietz
Throw Darts at
a Cheesecake
(*Walker—Nov.*)
Colorado

Toni Dwiggins
Interrupt
(*Tor Bks.—Jan.*)
California

Marjorie Edelson
Malkah and
Her Children
(*Ballantine—Nov.*)
California

Marc Eden
The Spy
(*Evans—Oct.*)
California
(*LJ* 9/1/92)

Edward M. Eveland
The Quarterback
(*Ashley Pub. Co.—
Oct.*)
California

Ethan Feinsod
The Habits of
a Lifetime
(*St. Martin's—Oct.*)
California

Todd Gitlin
The Murder of
Albert Einstein
(*Farrar—Sept.*)
California

David Hall
Return Trip Ticket
(*St. Martin's—Dec.*)
New Mexico

Lorian Hemingway
Walking into the River
(*S. & S.—Oct.*)
Washington
(*LJ* 10/1/92)

Walter Kim
She Needed Me
(*Pocket Bks.—Oct.*)
Montana
(*LJ* 9/1/92)

Marsha Landreth
The Holiday Murders
(*Walker—Dec.*)
California

Samuel H. Pillsbury
Conviction
(*Walker—Oct.*)
California

Sandra W. Prowell
By Evil Means
(*Walker—Jan.*)
Montana

David Romtvedt
Crossing Wyoming
(*White Pine Pr.—
Nov.*)
Wyoming

Kristine Rosemary
The War Against
Gravity
(*Black Heron Pr.—
Jan.*)
Washington

Wayne Smith
Thor
(*St. Martin's—Nov.*)
California
(*LJ* 10/1/92)

Daniel Victor
The Seventh Bullet
(*St. Martin's—Nov.*)
California
(*LJ* 10/1/92)

SOUTH

Kenneth W. Baker
Alone in the Valley
(*Permanent Pr.—Sept.*)
Georgia

Cindy Bonner
Lily
(*Algonquin Bks.—Oct.*)
Texas
(*LJ* 8/1/92)

Poppy Z. Brite
Lost Souls
(*Abyss Bks:
Delacorte—Oct.*)
Georgia
(*LJ* 9/15/92)

Carol Dawson
The Waking Spell
(*Algonquin Bks.—Oct.*)
Texas (*LJ* 9/15/92)

Rita Dove
Through the Ivory Gate
(*Pantheon—Oct.*)
Virginia
(*LJ* 8/92)

**Tom Ferguson
& Joe Graedon**
No Deadly Drug
(*Pocket Bks.—Sept.*)
Texas & North Carolina
(*LJ* 8/92)

Peter Filene
Home and Away
(*Zoland Bks.—Sept.*)
North Carolina

Maria Flook
Family Night
(*Pantheon—Jan.*)
North Carolina

Tommy Hayes
Sam's Crossing
(*Atheneum—Jan.*)
North Carolina

Robin Hemley
The Last Studebaker
(*Graywolf Pr.—Sept.*)
North Carolina
(*LJ* 9/15/92)

Barbara Johnson
Stonehurst
(*Naiad Pr.—Oct.*)
Maryland

John McCormick
The Right Kind of War
(*Naval Inst. Pr.—Oct.*)
Alabama
(*LJ* 9/1/92)

Michael McKinney
A Thousand Bridges
(*Walker—Oct.*)
Florida

Arthur F. Nehrbass
Dead Easy
(*Dutton—Nov.*)
Florida
(*LJ* 10/1/92)

Howard Owen
Littlejohn
(*Permanent Pr.—Oct.*)
Virginia
(*LJ* 8/92)

Susan Pepper-Robbins
River and Jungle
(*Random—Jan.*)
Virginia

John Russell
Favorite Sons
(*Algonquin Bks.—
Sept.*)
North Carolina
(*LJ* 9/15/92)

Marilyn D. Staats
Looking for Atlanta
(*Univ. of Georgia Pr.—
Oct.*) Georgia
(*LJ* 9/1/92)

Gail D. Storey
The Lord's Motel
(*Persea Bks.—Sept.*)
Texas
(*LJ* 9/1/92)

Jack Valenti
Protect and Defend
(*Doubleday—Oct.*)
Washington, D.C.
(*LJ* 9/1/92)

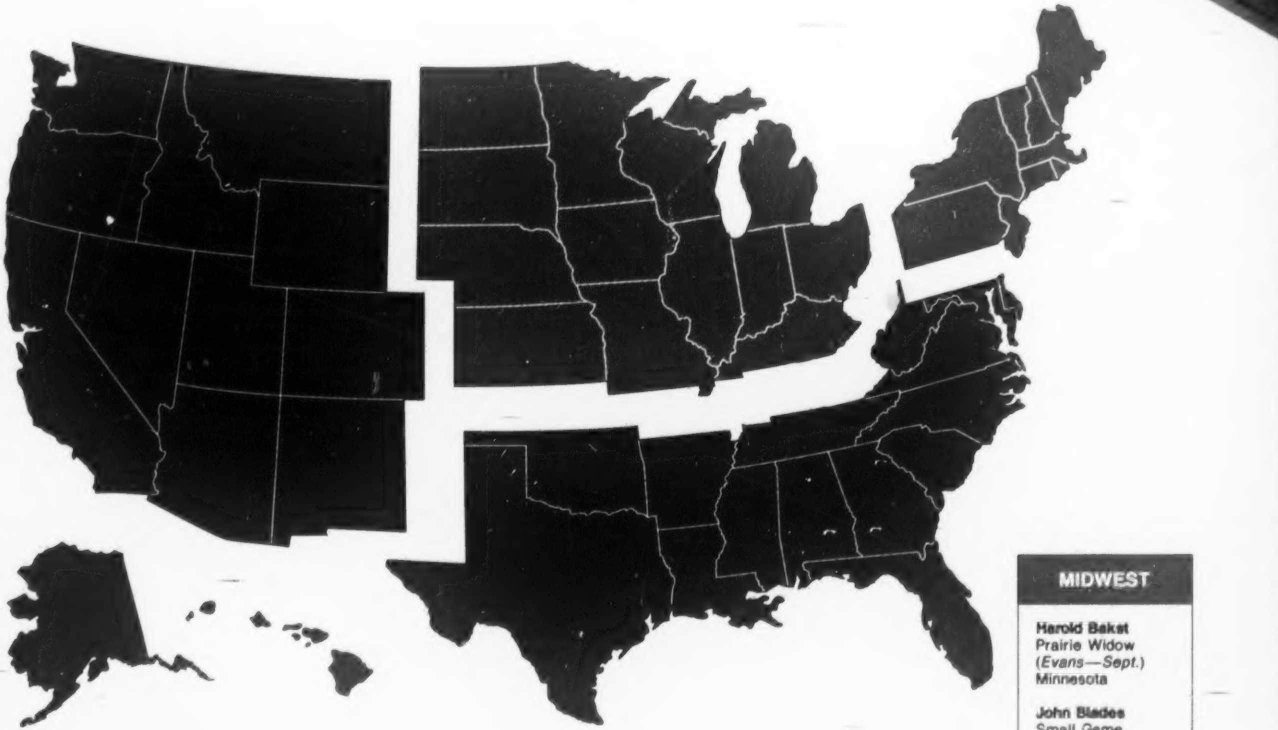
Luke Whisnant
Watching TV with
the Red Chinese
(*Algonquin Bks.—
Sept.*)
North Carolina
(*LJ* 8/92)

Muriel K. Zager
Bystander
(*Strawberry Hill Pr.—
Oct.*)
Tennessee

Fall/Winter
1992–1993

First Novels

Compiled by Ann Burns,
Staff Editor, *LJ*



NORTHEAST

Patrice Adcroft
The Baker's Dream
(*St. Martin's—Nov.*)
New York
(*LJ* 10/1/92)

Jesse Browner
Conglomeros
(*Random—Sept.*)
New York

Brian D'Amato
Beauty
(*Delacorte—Oct.*)
New York
(*LJ* 10/1/92)

Jim DeFilippi
Blood Sugar
(*HarperCollins—Sept.*)
Vermont (*LJ* 9/1/92)

Eric Drooker
Flood
(*Four Walls Eight Windows—Nov.*)
New York

Suzanne Falter-Barnes
Doin' the Box Step
(*Random—Nov.*)
New York
(*LJ* 10/1/92)

Lewis Gannett
The Living One
(*Random—Jan.*)
Massachusetts

Edward B. Hanna
The Whitechapel Horrors
(*Carroll & Graf Pubs.—Oct.*)
New York

Jane S. Hitchcock
Trick of the Eye
(*Dutton—Sept.*)
New York

Eve Horowitz
Plain Jane
(*Random—Sept.*)
New York (*LJ* 8/92)

Ewa Kuryluk
Century 21
(*Dalkey Archive Pr.—Dec.*)
New York
(*LJ* 9/15/92)

Alisa Kwitney
Till the Fat Lady Sings
(*Aaron Asher Bks: HarperCollins—Sept.*)
New York
(*LJ* 9/1/92)

Alan Lightman
Einstein's Dreams
(*Pantheon—Jan.*)
Massachusetts

Daniel L. Magida
The Rules of Seduction
(*Houghton--Sept.*)
Connecticut
(*LJ* 8/92)

Jamie Malanowski
Mr. Stupid Goes to Washington
(*Birch Lane Pr: Carol Pub. Group—Sept.*)
New York (*LJ* 8/92)

Charles Mathes
The Girl with the Phony Name
(*St. Martin's—Oct.*)
New York

Vincent Murano & Richard Hammer
The Thursday Club
(*S. & S.—Nov.*)
New York

Susan Oleksiw
Murder in Mellingham
(*Scribner—Jan.*)
Massachusetts

Jim Oliver
Closing Distance
(*Putnam—Sept.*)
Pennsylvania (*LJ* 8/92)

Jonathan Pearlman
Two To Tango
(*S. & S.—Sept.*)
New York (*LJ* 7/92)

Iva Pekarkova
Truck Stop Rainbows
(*Farrar—Sept.*)
New York (*LJ* 9/15/92)

David Rabe
Recital of the Dog
(*Grove Pr.—Nov.*)
New York

Robert Reiss
In a Time of War
(*S. & S.—Jan.*)
New York

Frank Schaeffer
Portofino
(*Macmillan—Sept.*)
Massachusetts

S.B. Sutton
The Day the Televisions Stopped
(*HBJ—Sept.*)
Massachusetts
(*LJ* 8/92)

Donna Tartt
The Secret History
(*Knopf—Sept.*)
New York
(*LJ* 9/15/92)

Alan Trustman
Father's Day
(*Birch Lane Pr: Carol Pub. Group—Oct.*)
New York (*LJ* 8/92)

Stephen Tunney
Flan
(*Four Walls Eight Windows—Nov.*)
New York

Paul Wilkes
Seduction
(*Random—Jan.*)
Massachusetts

Dorian Yeager
Cancellation by Death
(*St. Martin's—Nov.*)
New York

MIDWEST

Harold Bakst
Prairie Widow
(*Evans—Sept.*)
Minnesota

John Blades
Small Game
(*Holt—Nov.*)
Illinois
(*LJ* 9/15/92)

Patrick Creevy
Lake Shore Drive
(*Tor Bks.—Dec.*)
Illinois

Alison Glen
Showcase
(*S. & S.—Oct.*)
Ohio
(*LJ* 9/1/92)

Judith Katz
Running Fiercely Toward a High Thin Sound
(*Firebrand Bks.—Nov.*)
Minnesota

Eric Kinkopf
Shooter
(*Putnam—Jan.*)
Ohio

Paul Lindsay
Witness to the Truth
(*Random—Oct.*)
Michigan
(*LJ* 9/1/92)

Linda McHugh
Silent Fury
(*Tor Bks.—Sept.*)
Michigan

Maynard F. Thompson
Trade Secrets
(*Pocket Bks.—Jan.*)
Ohio

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VOL. 117 No. 17

LIBRARY

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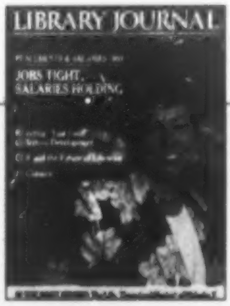

New MLS Carol Krueger and sculpture aptly titled "Tree I" at the National Library of Medicine where she works. Krueger is one of the 2,043 1991 graduates to find work in libraries. Zipkowitz's placement story begins on page 30.

PHOTOGRAPH BY MANUELLO PAGANELLI

October 15, 1992

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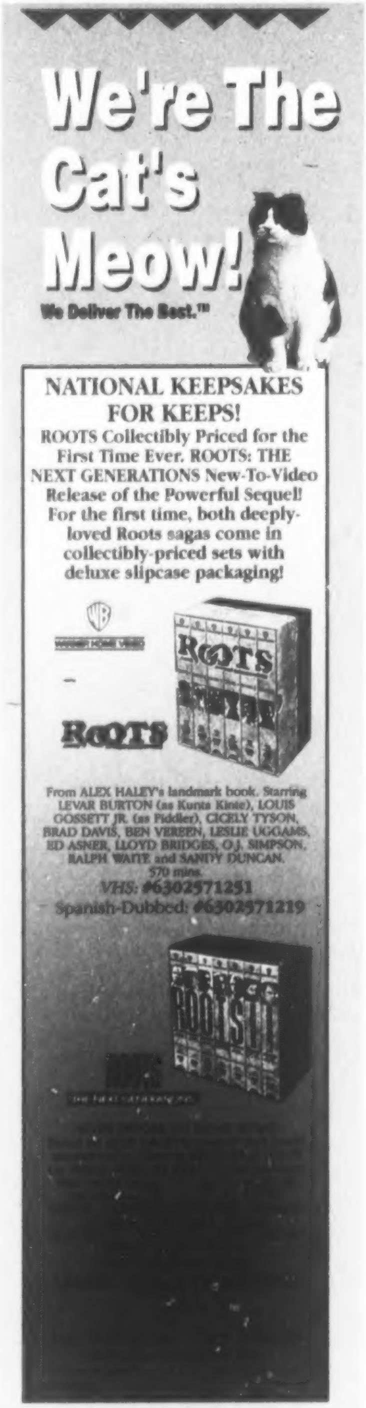

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☐ NEWS ☐

BY MICHAEL ROGERS

Government Releases Telling Data on U.S. Public Libraries

National Center for Education Statistics publishes national as well as state-by-state statistics summarizing 1990 public library operations

New York, Ohio, Alaska, Indiana, and Maryland spent more money per capita on their public libraries than any other states in the nation in 1990. Conversely, Democratic presidential nominee Bill Clinton would be chagrined to learn that his home state, Arkansas, spent the least, followed by Mississippi, Tennessee, West Virginia, and Texas (see Figure 1, opposite page). The statistics are part of "Public Libraries in the U.S.: 1990," a report recently released by the National Center for Education Statistics (NCES).

By conducting the annual study, NCES, with assistance from the U.S. National Commission on Libraries and Information Science (NCLIS), is taking on the ambitious task of attempting to paint a vivid picture of the current state of almost 9000 public libraries across the country. The study, in its second year, details some telling aspects of U.S. public libraries in the aggregate (all references to the term per capita pertain to legal service area population):

- Out of 8,978 libraries (not including branches) reported in the 50 states and the District of Columbia, total operating expeditures were $4.1 billion, with a paid full-time equivalent staff of 108,246.
- 45 percent of all reporting libraries had operating expenditures of less than $50,000, 36 percent expended between $50,000 and $399,000, and nearly 19 percent of the libraries exceeded $400,000 in spending.

People living in rural areas take out almost twice as many books as their urban counterparts

- Nationwide, public libraries reported book and serials collections totaling 613 million volumes, or 2.5 volumes per capita. They also reported collections of more than 18 million audio materials, 702,000 films, and 3.8 million video materials.
- Patrons across the country made nearly 507 million visits to the library in 1990, an average of 3.13 visits per capita.
- Nationwide circulation totaled 1.4 billion, or 5.75 per capita, proving that in a little more than three visits annually, visitors were making efficient use of their trips, checking out almost two library items per trip.
- People living in rural areas take out almost twice as many books as their urban counterparts.

The 117-page report also includes cross-referenced, state-by-state data on number of public libraries, staff expenditures—salary and wages vs. benefits—size of library collections, weekly service hours, and library attendance.

"Our hope is that groups eventually will be able to use the data for planning, evaluation, and policymaking," said researcher Adrienne Chute, who authored the NCES study. However, she said NCES was not yet ready to endorse the study as anything more than a resource for now, with the primary caveat being response. The report states, "Totals . . . can be significantly underestimated if the size of nonresponse is large." But it then goes on to say that "the impact of nonresponse on averages and ratios is typically less serious."

NCES is also making available DECTOP (data entry, conversion, table, output program), the software it uses to uniformly collect its data from the states, said Mary Joe Lynch, who was instrumental in formulating the Federal-State Cooperative System (FSCS) for Public Library Data, the system under which NCES administers DECTOP. Lynch, who sat on FSCS's steering committee and is director of the American Library Association's Office for Research and Statistics, said librarians could use DECTOP with its myriad cross references for extensive comparisons with other states and public library sectors.

One of two major sources

The NCES report is one of two major sources of information documenting U.S. public libraries as a group. The other, the Public Library Data Service Statistics Report, is produced by the Public Library Association (PLA) and focuses more on individual libraries, said PLA Executive Director Joey Rodger. Rodger, who also sat on the FSCS steering committee along with Lynch, said the strength of the NCES survey lies in its ability to focus on statewide and national pictures that the PLA survey "just can't do." Rodger described the NCES report as a "wonderful addition to help libraries manage."—*Reported by Evan St. Lifer* ☐

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Garden State library conducts analysis of community to serve users better 18

S.F. library director seeks to expand trust to buy other materials besides books 20

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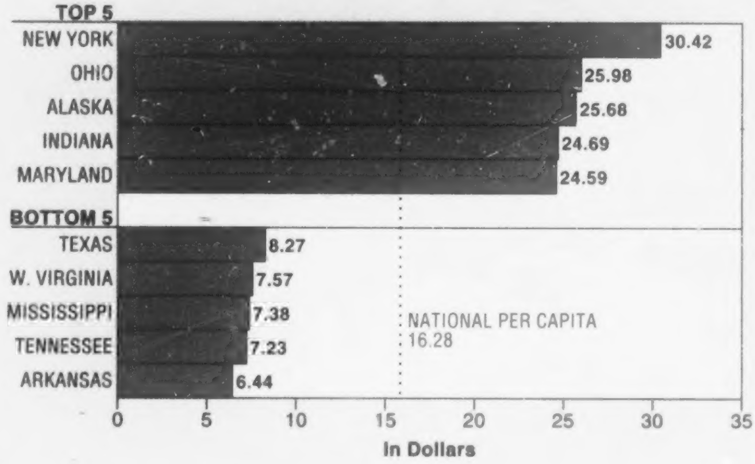
Figure 1: Public Library Expenditures

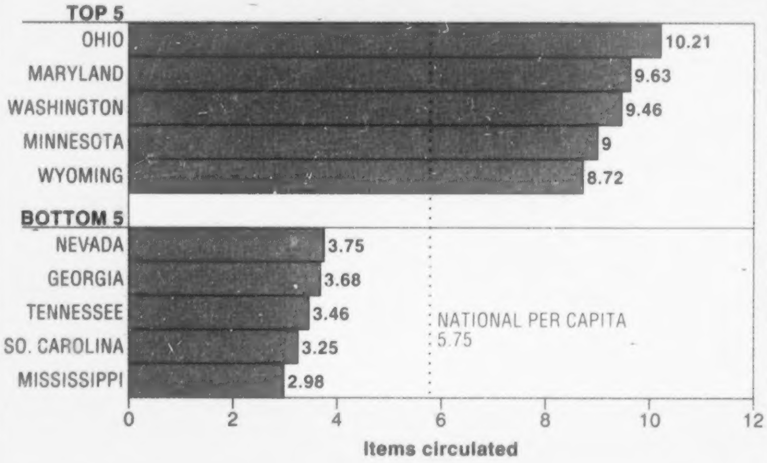
per capita*: 1990



*Library Legal Service Area Population

Figure 2: Public Library Circulation

per capita*: 1990



*Library Legal Service Area Population

CHARTS BY ANNABELLE CARTER

Virtual Reality, Internet Capture LITA's Denver Debate

Nearly 100 exhibitors, practical mixed with visionary, few jobs draw light action at the placement center

The opportunity for librarians in "virtual reality" and both the promise and the discovery of emerging problems and issues surrounding Internet—the precursor to the National Research and Education Network (NREN)—captured the attention of the 1,379 paid registrants at the third national conference of the Library and Information Technology Association (LITA), held September 13–16 in Denver.

Virtual community care

In his keynote address, MIT's Michael Schrage, author of *Shared Minds: The New Technologies of Collaboration* (Random, 1990), urged librarians to shift from networking information to networking people. Calling libraries "an information arcade, a fun place, a media arcade," Schrage asserted that libraries were a "medium for a community" and referred to librarians as "presidents of invisible colleges."

Internet, mentioned by Schrage as a "virtual community," was a major focus at LITA, a division of the American Library Association (ALA). An Internet room was constantly packed with librarians checking their E-mail, and in seminars participants discussed the network's "growing pains," its relationship to NREN, problems of access, and quantity vs. quality of messages ("electronic junk mail"). The question of how Internet would become NREN was discussed and debated.

Former LITA president Paul Peters of the Coalition for Networked Information reviewed the transition of Internet to NREN. He sees opportunity for librarian influence in the three- to five-year development period built into NREN legislation.

Syracuse University's Charles McClure, reporting on his groundbreaking study of public library potential in NREN, also chronicled public librarians' working conditions. "I still see four librarians doing the work of eight and getting paid for two," he reported.

While virtual reality (VR) and all the "virtual communities" were debated at length by LITA luminaries, the packed, two-day LITA program included plenty of practical, hands-on information. So while Howard Rheingold, author of the leading book on the subject, and University of California's Cliff Lynch did back-to-back programs on versions of virtual reality, Colorado school librarian Nancy Tucker ran a program on automating school libraries. And as Georgetown University's Susan Martin and Dave Penniman, Council on Library Resources, defended their Strategic Visions for librarians, Yale's Nancy Roderer introduced research reports by Lloyd Davidson on NOTIS training and one by Pru Dalrymple (ALA) and Jennifer Younger (Ohio State) on

PLACEMENTS & SALARIES 1991

In the 41st year of our survey, women's salaries increased by $441 over 1990, while the median salary rose to $25,000

JOBS TIGHT, SALARIES HOLDING

By Fay Zipkowitz

A MESSAGE from University of California–Berkeley MLIS Career Advisor Susan Kishi: "This year is proving to be a real challenge for placement officers . . . institutions, academic and public, are really facing severe cutbacks. Special libraries seem to be making a slow recovery after their dismal last year . . . . Our entry-level graduates are competing with more applicants for every job (applicants that have been laid off, or are seeking more job security). I have also noticed more listings for temporary, full-time positions."

And one from W. Michael Havener, assistant professor at the University of Oklahoma School of Library and Information Studies: "Our graduates normally have no problem finding jobs. In fact we have more requests from potential employers (especially public school systems) than we have graduates to fill those slots."

Fay Zipkowitz is Associate Director, Graduate School of Library and Information Studies, University of Rhode Island, Kingston

Table 1: Status of 1991 U.S. Graduates, Spring 1992

Region	No. of Graduates	Not in Library Positions			Empl. Not Known			Permanent Prof. Placements			Temp. Prof. Placements			Nonprof. Library Placements			Total in Library Positions		
	Total	Women	Men	Total	Women	Men	Total	Women	Men	Total	Women	Men	Total	Women	Men	Total	Women	Men	Total
Northeast	1187	17	9	26	48	19	67	422	134	556	35	12	47	26	10	36	483	156	639
Southeast	558	9	4	13	20	6	26	226	45	271	14	5	19	11	2	13	251	52	303
Midwest	1369	13	13	26	139	36	175	476	135	611	28	7	35	39	4	43	543	146	689
Southwest	439	4	6	10	53	5	58	150	42	192	6	5	11	11	4	15	167	51	218
West	354	8	5	13	0	0	0	113	43	156	23	10	33	4	1	5	140	54	194
All Schools	**3907**	**51**	**37**	**88**	**260**	**66**	**326**	**1387**	**399**	**1786**	**106**	**39**	**145**	**91**	**21**	**112**	**1584**	**459**	**2043**

Table 2: Placements and Full-Time Salaries of 1991 U.S. Graduates Summary by Region

Region	Placements	Salaries			Low Salary			High Salary			Average Salary			Median Salary		
	Total	Women	Men	Total	Women	Men	Total	Women	Men	Total	Women	Men	Total	Women	Men	Total
Northeast	552	346	111	457	10000	16000	10000	60000	62500	62500	27343	28487	27621	26173	27000	26400
Southeast	309	197	38	235	13000	19600	13000	44000	32000	44000	23863	24405	23951	23000	23733	23000
Midwest	713	393	122	515	10000	12000	10000	48000	55000	55000	24891	25613	25062	24000	24450	24000
Southwest	199	137	34	171	14400	10000	10000	39500	37500	39500	23894	25191	24152	23000	24750	23500
West	166	82	33	115	10000	10000	10000	49000	65000	65000	29307	30041	29517	28494	29900	28600
All Schools	**1939**	**1155**	**338**	**1493**	**10000**	**10000**	**10000**	**60000**	**65000**	**65000**	**25645**	**26811**	**25909**	**25000**	**25500**	**25000**

Most other areas of the country fall somewhere between these two extremes, with several Northeast schools citing serious cutbacks in funding for public and academic libraries affecting the availability of entry-level positions in their region.

For this 41st annual placement survey report, the good news is that 52 accredited library schools were still active in the United States in 1991; the bad news is that by the 1992 reporting year, at least four of them will have closed or will be in the process of shutting down. This report reflects comprehensive responses by 45 of the 52 institutions, giving placement information, salaries, and trends. One school provided summary data but not specific placement information. No response was received from three

Table 3: Placements by Type of Library

Schools	Public			Elementary & Secondary			College & Universities			Special			Other			Total		
	Women	Men	Total	Women	Men	Total	Women	Men	Total	Women	Men	Total	Women	Men	Total	Women	Men	Total
Alabama	11	4	15	4	0	4	9	2	11	5	0	5	0	0	0	29	6	35
Brigham Young	6	0	6	2	0	2	3	8	11	0	0	0	0	0	0	11	8	19
California (Berk.)	12	4	16	4	0	4	8	5	13	7	2	9	3	2	5	34	13	47
California (L.A.)	20	4	24	0	0	0	6	3	9	10	4	14	4	0	4	40	11	51
Catholic	4	0	4	5	0	5	3	3	6	7	10	17	2	1	3	21	14	35
Clarion	8	1	9	10	0	10	9	2	11	2	0	2	0	0	0	29	3	32
Clark Atlanta	1	1	2	2	0	2	3	4	7	2	1	3	1	0	1	9	6	15
Columbia	4	1	5	0	0	0	5	6	11	3	3	6	5	4	9	17	14	31
Drexel	14	8	22	9	1	10	11	6	17	8	4	12	3	1	4	45	20	65
Emporia	22	1	23	31	2	33	11	3	14	9	3	12	2	0	2	75	9	84
Florida State	11	1	12	6	3	9	4	2	6	6	2	8	1	1	2	28	9	37
Hawaii	6	2	8	14	0	14	3	4	7	5	2	7	1	1	2	29	9	38
Illinois	8	3	11	1	0	1	24	9	33	4	0	4	0	3	3	37	15	52
Indiana	34	8	42	6	0	6	20	5	25	12	4	16	0	0	0	72	17	89
Iowa	8	2	10	2	1	3	4	1	5	6	1	7	1	1	2	21	6	27
Kent State	33	17	50	10	1	11	8	4	12	7	0	7	1	3	4	59	25	84
Kentucky	8	3	11	13	0	13	10	7	17	1	2	3	3	1	4	35	13	48
Louisiana State	13	2	15	8	0	8	4	3	7	5	5	10	1	1	2	31	11	42
Michigan	19	3	22	0	0	0	14	6	20	23	4	27	4	1	5	60	14	74
Missouri	18	2	20	4	0	4	2	4	6	12	2	14	0	0	0	36	8	44
North Carolina Central	7	1	8	8	0	8	0	1	1	3	0	3	1	0	1	19	2	21
North Carolina Chapel Hill	8	2	10	3	0	3	11	3	14	6	0	6	1	3	4	29	8	37
North Carolina Greensboro	2	1	3	26	0	26	6	0	6	0	0	0	1	0	1	35	1	36
North Texas	19	3	22	10	0	10	12	6	18	1	2	4	0	2	2	42	13	56
Northern Illinois	12	6	18	8	0	8	0	1	1	4	1	5	0	0	0	24	8	32
Oklahoma	6	1	7	14	1	15	3	0	3	0	0	0	1	0	1	24	2	26
Pittsburgh	4	0	4	5	0	5	7	5	12	3	1	4	0	0	0	19	6	25
Queens	9	6	15	5	1	6	3	2	5	5	3	8	0	0	0	22	12	34
Rhode Island	10	0	10	13	1	14	6	1	7	7	1	8	0	0	0	36	3	39
Rosary	35	5	40	16	2	18	7	3	10	7	5	12	3	0	3	68	15	83
Rutgers	35	12	47	18	1	19	11	10	21	21	6	27	7	1	8	92	30	122
St. John's	8	2	10	3	0	3	1	1	2	8	2	10	2	0	2	22	5	27
Simmons	27	0	27	8	0	8	16	5	21	25	7	32	0	0	0	76	12	88
South Carolina	9	4	13	23	1	24	11	6	17	4	2	6	1	0	1	48	13	61
Southern Connecticut	13	2	15	13	1	14	2	2	4	4	3	7	1	0	1	33	8	41
Southern Mississippi	5	1	6	10	0	10	2	0	2	0	0	0	0	0	0	17	1	18
SUNY Albany	12	3	15	29	2	31	9	4	13	6	2	8	0	0	0	56	11	67
SUNY Buffalo	5	2	7	13	1	14	7	1	8	5	0	5	0	0	0	30	4	34
Tennessee	5	0	5	4	0	4	6	1	7	2	0	2	3	1	4	20	2	22
Texas (Austin)	11	5	16	14	1	15	18	11	29	20	6	26	2	2	4	65	25	90
Texas Woman's	15	1	16	7	0	7	8	2	10	4	0	4	0	1	1	34	4	38
Washington	10	0	10	4	2	6	9	2	11	5	5	10	0	0	0	28	9	37
Wayne State	19	6	25	10	4	14	8	1	9	10	3	13	0	0	0	47	14	61
Wisconsin (Madison)	4	3	7	12	0	12	8	5	13	5	1	6	1	1	2	30	10	40
Wisconsin (Milwaukee)	3	4	7	6	0	6	5	1	6	5	0	5	4	1	5	23	6	29
Total	**553**	**137**	**690**	**413**	**26**	**439**	**337**	**161**	**498**	**294**	**99**	**394**	**60**	**32**	**92**	**1657**	**455**	**2113**

Northeastern, two Southeastern, and one Western institution. I appreciate the thoughtful responses to this survey and the time involved in gathering and reporting the data.

In 1991 the average beginning salary was $25,583 based on 1,786 known full-time, professional, permanent placements. This represents a one percent increase over the 1990 figure of $25,306, while the median salary increased 3.3 percent to $25,000 from the 1990 level of $24,200. Thus the typical salary showed a modest increase and also demonstrates the ability of widely variant salaries (a preponderance of lower-than-expected cases) to muddle the interpretation of the average salary level.

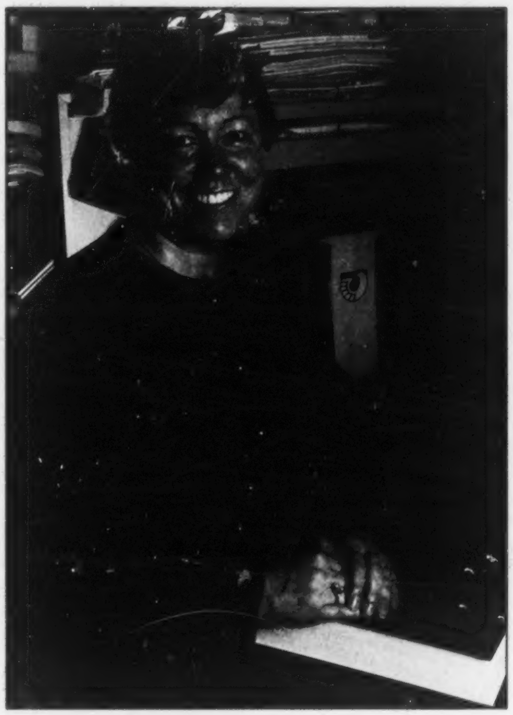
In 1991 placements, there was no meaningful increase in the average

Table 4: Placements and Full-Time Salaries of 1991 U.S. Graduates

Schools	Placements	Salaries			Low Salary			High Salary			Average Salary			Median Salary		
		Women	Men	Total	Women	Men	Total	Women	Men	Total	Women	Men	Total	Women	Men	Total
Alabama	32	20	6	26	18925	19600	18925	29800	28500	29800	22800	23133	22877	22750	23000	22750
Brigham Young	18	10	8	18	19008	21800	19008	34500	32000	34500	25258	23816	24617	24500	24050	24300
California (Berk.)	41	23	13	36	21000	21400	21000	48000	65000	65000	31388	34344	32452	30000	30700	30490
California (L.A.)	36	20	4	24	22000	22500	22000	36868	28688	36868	29757	25551	29056	29500	25508	28844
Catholic	28	16	11	27	19000	17000	17000	32500	41750	41750	25823	28304	26834	25750	27691	26145
Clarion	25	21	3	24	10000	17000	10000	31000	24000	31000	21485	20733	21391	22400	21200	21850
Clark Atlanta	15	2	2	4	25000	22500	22500	35186	24750	35186	30093	23625	26859	30093	23625	24875
Columbia	27	13	11	24	19200	25260	19200	53000	37000	53000	32538	30927	31511	28500	28500	28500
Drexel	56	33	18	51	15500	20000	15500	45000	51000	51000	28007	31573	29266	27000	29000	27711
Emporia	83	13	0	13	19000	—	19000	30000	—	30000	25102	—	25102	25000	—	25000
Florida State	33	7	23	30	18000	20500	18000	33971	32000	33971	23420	26750	24197	22975	28000	23600
Hawaii	17	14	2	16	20556	27000	20556	49000	30500	49000	31102	28750	30808	30000	28750	30000
Illinois	35	16	9	25	10650	22000	10650	32500	33000	33000	23488	24904	23998	24000	23540	24000
Indiana	80	51	17	68	11040	18500	11040	46000	55000	55000	23560	27877	24639	23266	25000	23720
Iowa	24	17	6	23	18720	24000	18720	32250	36000	36000	25475	28135	21689	26185	25655	26185
Kent State	77	45	16	61	16000	18000	16000	38000	48000	48000	25290	25652	25385	23906	23750	23906
Kentucky	48	35	13	48	18000	22000	18000	31000	33000	33000	23937	26615	24663	24000	26000	24750
Louisiana State	35	21	3	24	18500	22000	18500	34354	28000	34354	23749	25239	23935	21500	25717	22274
Michigan	63	51	11	62	18000	21600	18000	48000	32000	48000	26433	24677	26121	25500	24000	25000
Missouri	42	29	7	36	20000	21000	20000	39000	32423	39000	24685	24832	24714	24000	23000	23658
N.C. Central	21	18	2	20	19500	20600	19500	32400	25600	32400	24106	22800	23975	23800	23800	23800
N.C. Chapel Hill	37	19	6	25	19185	20100	19185	44000	29670	29670	24635	24654	24640	23800	23192	23500
N.C. Greensboro	33	27	1	28	14500	21750	14500	30000	21750	30000	23492	21750	23429	23500	21750	23250
North Texas	48	38	9	47	14400	20000	14400	29439	35000	35000	22324	26890	23199	22000	27600	22214
Northern Illinois	32	22	8	30	16000	12000	12000	42124	24200	42124	24996	20963	23920	24700	23250	23800
Oklahoma	24	21	2	23	17500	22500	17500	25000	22500	25000	22452	22500	22457	22500	22500	22500
Pittsburgh	23	14	5	19	14096	18400	14096	37000	53000	53000	25664	27800	26226	25000	23600	24395
Queens	30	19	10	29	22000	20000	20000	52000	36000	52000	31279	26689	29699	27000	26100	26280
Rhode Island	24	17	2	19	19400	16000	16000	42000	26000	42000	26337	21000	25770	23500	21000	23500
Rosary	78	53	14	67	13150	21600	13150	41000	40000	41000	25138	27100	25548	24000	26150	24200
Rutgers	100	65	23	88	18500	21800	21800	54891	62500	62500	29251	28253	28991	28000	26000	27250
St. John's	24	17	3	20	24000	26000	24000	60000	27000	60000	31300	26333	30555	28000	26000	27550
Simmons	76	61	10	71	10400	21500	10400	35000	31700	35000	24502	26030	24717	24600	26300	25000
South Carolina	55	43	10	53	13000	20000	13000	38000	30000	38000	24312	24109	24274	23900	23733	23733
S. Connecticut	26	19	6	25	16000	20636	16000	44820	47000	47000	28666	30439	29091	28695	28500	28695
So. Mississippi	18	11	1	12	17875	22000	17875	30000	22000	30000	20984	22000	21069	20102	22000	20476
SUNY Albany	46	37	8	45	19000	18000	18000	40000	43000	43000	27214	29854	27683	26000	29068	26500
SUNY Buffalo	18	14	1	15	17000	28337	17000	37884	28337	37884	26295	28337	26432	24929	28337	25000
Tennessee	13	13	0	13	17000	—	17000	37750	—	37750	25767	—	25767	24500	—	24500
Texas (Austin)	80	51	20	71	18500	20000	18500	39500	37500	39500	25814	25623	25760	25000	24750	25000
Texas Woman's	31	27	3	30	16500	10000	10000	32591	26000	32591	23599	19000	23138	22500	21000	22250
Washington	21	15	6	21	21600	18000	18000	32500	42000	42000	26538	32462	28230	25438	35386	26124
Wayne State	45	28	6	34	19000	19600	19000	40000	29000	40000	25696	24039	25403	24600	25000	24600
Wisconsin (Mad.)	35	19	9	28	15000	22000	15000	30000	33000	33000	23240	25683	24025	24000	25425	24250
Wisconsin (Milw.)	20	14	6	20	17000	19000	17000	33500	26000	33500	25879	22283	24800	25000	22100	24250

Carol Krueger: A Librarian by Degrees

By Francine Fialkoff



"MEDICINE has always been my passion," said Carol Krueger, who parlayed her May 1991 MLS from the University of Iowa School of Library and Information Science (SLIS) into a job at the National Library of Medicine (NLM) in Bethesda, Maryland. Krueger, the cover subject for *LJ*'s annual "Placements & Salaries" feature, represents one of some 1700 lucky 1991 graduates who got a full-time job in her profession. [The full report starts on p. 30.]

But Krueger may not be the typical library graduate. Before starting at the University of Iowa, she'd worked for nearly 15 years as a librarian, beginning just out of college as manager of periodicals checking at Purdue University Library. After three years in periodicals checking, she told her boss that she loved working in a library, and he said "How can you tell? You've never worked in a library." He promptly transferred her to public services, in the pharmacy library at Purdue, where Krueger says she got to see "how everything was done."

From 1975 to 1985 Krueger singlehandedly ran a small environmental library, the Nebraska Game and Parks Commission Library in Lincoln. When she came on board, the library was a collection of 400–500 discarded books. "Even so, no one could find anything," she recalled. When she left, there were some 3000 volumes organized according to Library of Congress classification; 20 environmental periodical subscriptions; and a well-indexed maps collection. Krueger did regular reference work for the agency.

Coming full circle

Krueger has come full circle as a librarian—she's sole journal selector and government documents librarian at the NLM—but to some extent getting her MLS was like starting over. When she moved to Ames, Iowa in 1985, she couldn't get a library job without an MLS despite her experience. The public library wasn't hiring, and the university library promoted from within and didn't want to hire her as a lowly clerk. "I realized I needed a library degree to get a job in Ames," Krueger said.

Although Krueger needed that "piece of paper" to continue her career, there was some concern—on both her part and the University of Iowa SLIS admission's committee—regarding what the school could offer her and how she'd function in it. She was older than most of the students and had more direct library experience than they did. Carl Orgren, director of Iowa's SLIS, recalled he didn't just want to rubber stamp what she already knew, but to go beyond that. That's just what Krueger did. One of her professors recently said of Krueger, "She was better than anyone in going beyond what she knew—and she knew quite a lot—and she was especially good at sharing her library experiences with other students."

For Krueger, too, the SLIS program went well beyond what she knew in most areas. "They gave me what I do now for a living—medical librarianship," affirmed Krueger. Her courses in medical library service and bibliography introduced Krueger to many new sources in medicine and helped her learn how to analyze publications not just by subject but by their approach. "In all areas of science, journals are important, but in medicine, journals are it . . . that's where the information is," she noted. Now at the NLM she collects in traditional and nontraditional medicine: subjects such as Ayurvedic medicine, aromatherapy, balneotherapy, and naturopathy. Krueger also did a library internship at the Institute for Agricultural Medicine and Occupational Health at Iowa.

The one course that "didn't help at all," revealed Krueger, was cataloging. "I'd been doing it for ten years," she laughed, "and I probably had never done it the way I was taught."

None of her other courses were duds, but Krueger feels the computer classes could have been "broader and deeper." Fittingly, that's one of several areas targeted for change by Orgren and his colleagues after a university review and self-study that began last fall and was completed this summer: SLIS will draw on the computer science department to ensure that students are computer literate in the most up-to-date technology.

SLIS threatened

Barely a few months after Krueger received her MLS, the very existence of Iowa's SLIS was in doubt. Krueger was among the 54 1991 alumni who received letters from Orgren asking them to write to Dean Gerhard Loewenberg of the College of Liberal Arts and the members of the university's Board of Regents in support of the library school. The university had asked the College of Liberal Arts to "consider phasing out" the library school, noted Orgren.

"I couldn't believe how nearsighted it would be to close a proven program," said Krueger, "especially since so many schools in the Midwest had closed. And I couldn't help wondering whether it was partly because library school graduates don't have a

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Francine Fialkoff is Executive Editor, *LJ* lot of money to give back to the university."

Ultimately, with support from Dean Loewenberg and from Dean Leslie Sims of the Graduate College, the Board of Regents voted to retain the school. Orgren feels he got a "substantive endorsement" for library education at Iowa. The report noted that the school is a vital resource for the state and the region, attracts excellent students (113 students were admitted in 1992, but applications are often a third to two-thirds higher than that), and places its graduates easily. (Through summer 1991, 91 percent of the school's some 54 annual graduates were in library positions; the figure for 1992's 54 graduates was lower, down to about 75 percent.)

Orgren will be implementing a number of changes in response to the review team's recommendations (changes suggested by the SLIS, he noted). They include greater use of courses around the campus (including computer science, law, and business administration), increased interaction with other academic units, more ties with the libraries and their staffs, and a look at the school's external constituencies, both graduates and employers.

Not just a piece of paper

Whatever changes may be forthcoming at Iowa's SLIS, Krueger's experience there was positive. "It was a well-rounded program," she said. "It gave me credibility, a career I could take anywhere, and more money than I could earn without the degree." Krueger went to both the 1991 Medical Library Association (MLA) and the Special Libraries Association (SLA) meetings, but confirmed, "it wasn't a great year for hiring." After SLA she fully expected to end up in a pharmaceutical company.

Krueger was intrigued by the NLM, though. "I'd never been East before," she admits, "and I thought, 'Beyond here there are dragons.' But people spoke highly of the NLM. It was a huge library, and I wanted to see how it worked. Now I understand."

Only a little over a year ago, Krueger was one of those summer vacationers on a tour of the NLM. Later, she heard about the NLM position from a member of its staff. Now, one day a week it's her turn to give the tour.

woman's salary ($441) over the 1990 figure of $25,204, but the median salary rose 2.1 percent to $25,000. The median salary for men rose two percent, from $24,700 to $25,500 in 1991.

For a profession that has struggled with gender-based salary inequities mired in historical factors, it is disheartening to note that the beginning average salary for men in 1991 is $26,811, a 3.1 percent increase over 1990, while the beginning average salary for women is $25,645. The proportion of women graduates to men

Table 5: Average Salary Index*
Starting Library Positions, 1985–1991

Year	Library Schools	Avg. Beginning Salary	Dollar Increase in Avg. Salary	Beginning Index	BLS-CPI
1985	58	19753	962	111.6	109.3
1986	54	20874	1121	118.0	110.5
1987	55	22247	1373	125.7	115.4
1988	51	23491	1244	132.8	120.5
1989	43	24581	1090	138.9	124.0
1990	38	25306	725	143.0	130.7
1991	46	25583	277	144.6	136.2

* Bureau of Labor Statistics Consumer Price Index based on 1982–84 = 100. Average beginning salary for 1982–84 figured at $17,693

Table 6: Special Placements

Government Juridictions (U.S.)	Women	Men	Total
State libraries	7	1	8
Other government agencies (except USVA hospitals)	6	4	10
National libraries	8	5	13
Armed Services libraries (domestic)	2	1	3
Overseas agencies (incl. Armed Services)	0	0	0
Library Science			
Advanced study	3	2	5
Teaching	0	0	0
Other			
Children's services (school libraries)	0	0	0
Children's services (public libraries)	32	1	33
Youth services (school)	20	3	23
Youth services (public libraries)	114	12	126
Law	28	11	39
Business, (finance, industrial, corporate, banking, insurance, oil, etc.)	23	8	31
Medicine (incl. nursing schools)	16	4	20
Science and technology	13	8	21
Systems analysis; automation	14	7	21
Audiovisual and media centers	9	3	12
Bibliographic instruction	7	2	9
Hospitals (incl. USVA hospitals)	7	2	9
Rare books, manuscripts, archives	11	6	17
Research and development	3	0	3
Communications industry (advertising, newspaper, etc.)	2	1	3
Government documents	1	1	2
Information services (nonlibrary)	2	7	9
Historical agencies and archives	4	6	10
Religion (seminaries, theological schools)	3	2	5
Art and museum	4	3	7
Databases (publishing, servicing)	6	1	7
Outreach activities and services	5	1	6
Social sciences	0	1	1
Indexing	0	0	0
Records management	1	1	2
Networks and consortia	0	0	0
Freelance	1	3	4
Pharmaceutical	5	4	9
Professional associations	0	0	0
Technical writing	2	1	3
International relations (incl. area studies)	0	0	0
Maps	0	0	0
Bookstore	2	1	3
Genealogical	0	0	0
Services to the handicapped	0	1	1
Theater, motion pictures, dance, music	3	3	6
Correctional institutions	1	0	1
International agencies	0	3	3
Total Special Placements	**365**	**120**	**485**

graduates follows the traditional pattern—22 percent men to 78 percent women for 1991—and, alas, so do the salary discrepancies.

First professional degrees were awarded to 3,907 graduates of the 45 schools reporting for 1991. Twenty-two percent of the degree recipients were male and 78 percent female. In 1990, the 42 reporting schools awarded 3,522 first professional degrees; in 1989, 43 schools reported awarding 3,691 first professional degrees. The average number of graduates of schools reporting has not changed much from last year's report: 85 for 1991 and 84 for 1990.

Institutional data and trends

Twenty-two institutions report that listings of available positions have dropped, while six report an increase in listings, and four found no significant difference from last year. On average, the schools received about 1,273 listings, with the range of listings being from about 300 to about 3000. The percentage of change varies greatly and does not seem to follow a pattern or produce useful information. Several library schools do not maintain listings; all placement is done through their college or university placement services.

The schools were asked whether placements for 1991 graduates were up or down relative to 1990 placements: three schools reported placements up, by percentages ranging from one percent to 22 percent, while 12 schools reported placements were down, by percentages ranging from tnree to 43 percent. Twelve schools reported no significant change from last year in placement numbers or percentages.

Salaries were up over those of 1990 by two percent to 17 percent for 16 of the reporting schools. Seven schools reported salaries down by three to 13 percent. Ten institutions indicated no significant change in salaries from 1990 to 1991.

To the question of placements thus far in 1992, three institutions reported that placements were up, ranging from one to 22 percent, while 11 schools reported placements down, ranging from two to 43 percent. Twelve schools reported no significant difference from 1991 placements.

Increases and decreases in types of libraries/information services offering positions listings do not seem to follow any useful pattern, even by region. Some schools report numbers down for exactly the same types of libraries that others report the numbers are up.

Cataloging is the most often cited specialty for which there may be increasing demand and a short supply of qualified candidates, with science reference and science cataloging also mentioned. In response to a question about undergraduate preparation as a prerequisite for positions in demand, subjects that come up most often are math, all the sciences, engineering, foreign languages (one school listed Japanese), business, and computer science.

Again, a message from UC-Berkeley's Kishi: "My speech to entering students will emphasize: 1) get an early start—the job search is taking much longer; 2) be flexible and willing to look broadly—do not limit yourself [geographically]; 3) be prepared to take a temporary job."

Table 7: Comparison of Salaries by Type of Library

	Placements	Salaries Known			Low Salary			High Salary			Average Salary			Median Salary		
Public Libraries	Total	Women	Men	Total	Women	Men	Total	Women	Men	Total	Women	Men	Total	Women	Men	Total
Northeast	153	105	29	134	14500	18000	14500	45000	51000	51000	24782	27091	25282	24600	25700	25000
Southeast	85	60	15	75	14000	19600	14000	28080	25600	28080	22129	21999	22103	22326	22000	22000
Midwest	260	163	52	215	11200	18000	11200	34000	32100	34000	23011	23892	23224	23000	23950	23047
Southwest	58	41	9	50	14400	20000	14400	29500	26000	29500	21640	23413	21959	21700	23500	22050
West	55	34	6	40	20556	21400	20556	35000	32000	35000	27610	27794	27638	28000	27816	28000
All Schools	**611**	**403**	**111**	**514**	**11200**	**18000**	**11200**	**45000**	**51000**	**51000**	**23590**	**24644**	**23817**	**23000**	**24000**	**23400**
School Libraries																
Northeast	124	97	6	103	10400	16000	10400	60000	62500	62500	29115	36783	29562	27600	34350	28000
Southeast	96	72	3	75	14500	23000	14500	38000	28000	38000	24691	24981	24703	24000	23944	24000
Midwest	122	72	4	76	10650	26000	10650	42124	27000	42124	26775	26484	26759	26000	26468	26000
Southwest	45	37	2	39	17500	22500	17500	32591	24500	32591	25222	23500	25134	25000	23500	25000
West	22	17	2	19	25000	41000	25000	49000	42000	49000	32782	41500	33700	30000	41500	30297
All Schools	**409**	**295**	**17**	**312**	**10400**	**16000**	**10400**	**60000**	**62500**	**62500**	**27187**	**31269**	**27410**	**26000**	**26635**	**26000**
College/Univ. Libraries																
Northeast	120	60	37	97	14096	17000	14096	42000	38000	42000	25406	25976	25623	25500	26000	26000
Southeast	74	37	13	50	13000	20000	13000	35000	32000	35000	23814	25659	24294	23400	24000	23500
Midwest	164	69	36	105	12000	12000	12000	36020	42000	42000	25009	26306	25454	25000	25000	25000
Southwest	55	33	13	46	15000	10000	10000	39500	35000	39500	23469	34150	23662	22500	22200	22500
West	39	12	14	26	19008	22500	19008	36696	65000	65000	27694	31087	29521	26250	29294	28094
All Schools	**452**	**211**	**113**	**324**	**12000**	**10000**	**10000**	**42000**	**65000**	**65000**	**24824**	**26468**	**25398**	**24000**	**25000**	**25000**
Special Libraries																
Northeast	125	70	34	104	10000	21500	10000	45000	43000	45000	29232	29656	29371	30000	29500	30000
Southeast	38	22	4	26	15653	20000	15653	34354	29750	34354	24323	25054	24435	23970	25234	24470
Midwest	126	73	19	92	11040	18900	11040	48000	32423	48000	27553	25455	27120	26000	24200	25709
Southwest	33	23	8	31	16500	25200	16500	38000	37500	38000	27002	28478	27383	26000	27395	26789
West	35	12	6	18	21600	18000	18000	33000	32772	33000	27825	25845	27165	27900	25650	27800
All Schools	**357**	**200**	**71**	**271**	**10000**	**18000**	**10000**	**48000**	**43000**	**48000**	**27738**	**27818**	**27759**	**27000**	**27000**	**27000**
Other Libraries																
Northeast	30	13	5	18	25000	26200	25000	53000	53000	53000	35142	37256	35729	34000	37000	34500
Southeast	16	6	3	9	24000	29000	24000	44000	30000	44000	29892	29557	29780	28175	29670	29000
Midwest	41	15	11	26	18000	19000	18000	29252	55000	55000	24252	31431	27289	25000	28000	25013
Southwest	8	3	2	5	17500	25000	17500	20000	32000	32000	19167	28500	22900	20000	28500	20000
West	15	7	4	11	27000	30500	27000	48000	50000	50000	34410	37125	35397	34000	34000	34000
All Schools	**110**	**44**	**25**	**69**	**17500**	**19000**	**17500**	**53000**	**55000**	**55000**	**29508**	**33048**	**30790**	**27000**	**30500**	**28000**

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